

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

### Version Information :

[illegible]

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
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## REMINDERS

- ◆ Product information in this catalog is subject to change without notice, and is for reference only. Therefore, please contact GOTREND Technology to check for the latest information before practical application or usage of the products.
- ◆ This catalog contains only typical specifications, please contact GOTREND Technology for further details if you can not find special components or information you need in this catalogue. Please also approve our product specifications or transact the approval sheet for product specifications before ordering.
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- ◆ Products listed in this catalog are intended for general electronic device usage under normal operation and use condition including telecommunication equipment, home appliances, sports equipment AV equipment, industrial machine, office equipment etc. Please take note that our products are not designed, intended or authorized for use in below mentioned applications unless explicitly agreed in writing between the parties to avoid product failure that could result in situation where personal injury or death could occur.

- (1) Aerospace/Aviation equipment
- (2) Atomic energy-related equipment
- (3) Disaster prevention/crime prevention equipment
- (4) Electric heating apparatus, burning equipment
- (5) Medical equipment
- (6) Military equipment
- (7) Power-generation control equipment
- (8) Public information-processing equipment
- (9) Safety equipment
- (10) Seabed equipment
- (11) Transportation control equipment
- (12) Transportation equipment (cars, electric trains, ships, etc.)
- (13) Other applications that are not considered general-purpose applications

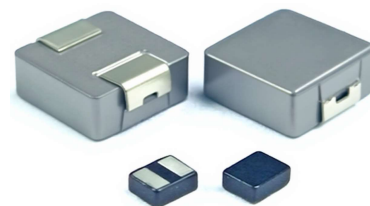
- ◆ Our manufacturing sites fully compliance with requirement regarding the quality management system in the automotive industry under the IATF 16949 standard. GOTREND Technology respect individual agreements with reference to customer requirements and customer specific requirements (CSR). We will like to emphasize that only requirements mutually agreed upon will in implemented in our Quality Management System taking into consideration that IATF 16949 may appear to support the acceptance of unilateral requirements. We will only legally bind to this individually agreed upon agreement under the IATF 16949 standard.
- ◆ The product itself is a powder metallurgy product, so the structure is relatively fragile, and it should not be used for products that are easy to fall. In addition, when this product is assembled, it should avoid collision with the tool or mechanism shell.
- ◆ It is not recommended to use hot air gun for disassembling of this product. When using of hot air gun to repair other parts, please also take note that long time or high temperature exposure of this product will also damage the inductance device. If you need to use the hot air gun to disassemble the product, it is recommended to adjust the hot air gun temperature to 380 deg.C±5 deg.C. The blower head of the hot air gun should be perpendicular and at least 1cm away from the product. After heating the product to the tin material melting point, use tweezers to remove the product from the PCB.



|                           |                    |                       |                                                                                 |
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| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

### Features & Application :

- \* High performance ( Isat) realized by metal dust core.
- \* Low loss realized with low DCR
- \* Capable of corresponing high frequency
- \* 100% lead ( Pb ) free meet RoHS standard
- \* DC / DC converter for CPU in Notebook PC



( Picture for reference only )

### Part No. Example :

|       |   |                                              |               |          |          |          |            |          |
|-------|---|----------------------------------------------|---------------|----------|----------|----------|------------|----------|
| PN    | : | <b>GSTD</b>                                  | <b>141208</b> | <b>P</b> | <b>C</b> | <b>-</b> | <b>R24</b> | <b>M</b> |
| ----- |   | -----                                        | -----         | ---      | ---      |          | -----      | ---      |
| ID    | : | 1                                            | 2             | 3        | 4        |          | 5          | 6        |
| 1     | : | GOTREND Series : GSTD                        |               |          |          |          |            |          |
| 2     | : | Type Size Code : 141208 = 1.4 x 1.2 x 0.8 mm |               |          |          |          |            |          |
| 3     | : | P = Pb free < 1000 ppm                       |               |          |          |          |            |          |
| 4     | : | [ C ] : Material Code                        |               |          |          |          |            |          |
| 5     | : | Inductance : R24 = 0.24 uH                   |               |          |          |          |            |          |
| 6     | : | Tolerance : M = +/-20%                       |               |          |          |          |            |          |

### Basic Information :

|                  |             |
|------------------|-------------|
| <b>Made in</b>   | China       |
| <b>Pin Foot</b>  | SMD         |
| <b>Shielding</b> | Yes         |
| <b>J-STD-020</b> | MSL Level 1 |
| <b>RoHS</b>      | Compliant   |
| <b>REACH</b>     | Compliant   |
| <b>Halogen</b>   | Free        |

### Operating & Storage Condition :

- \* Operating Temp -40 ~ +125 °C ( Including self - temperature rise )
- \* Storage Temp 1. -10 ~ +45 °C , 50 ~ 60% RH ( Product with taping )  
2. -40 ~ +125 °C ( On board )
- \* Storage Life Time 6 Month ( Less than 40 °C and 60% RH )

### Attention & Caution :

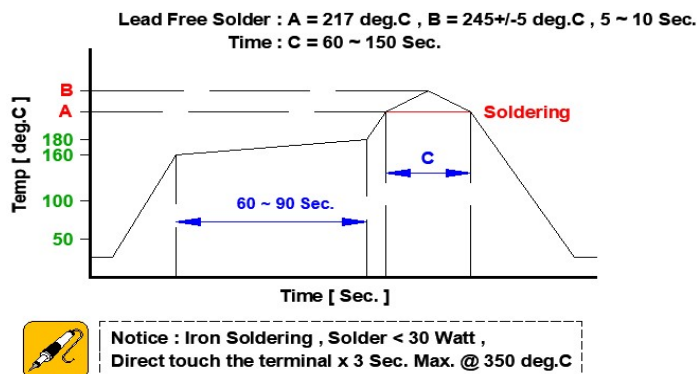
- \* Keep out of Splashing water or salt water
- \* Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- Vibrations or shocks which exceed the specified condition
- Dew condense
- Layout near the edge of PCB
- Over flexure after SMT mounting & PCBA

- \* Pin foot or SMD pad solderability: Pb free type is best within 6 months after delivery
- \* Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- \* Caution for human life relative applications : PLS contact & consult with GOTREND team in design stage.

### Test Condition :

- \* Equipment HP4284A , HP4281A - L , Q , DCR , IDC  
HP8753D Network analyzer - SRF
- \* Standard Atmosphere Conditions:  
Ambient Temperature 20 ± 15 °C  
Humidity RH 65 ± 20%
- \* If there may be any doubt on the test result ,  
Measurement shall be made within the following limits:  
Ambient Temperature 25 ± 5 °C  
Humidity RH 75 ± 10%

### Recommend IR Reflow Curve : GTX-IR-FILE001



|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date : | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

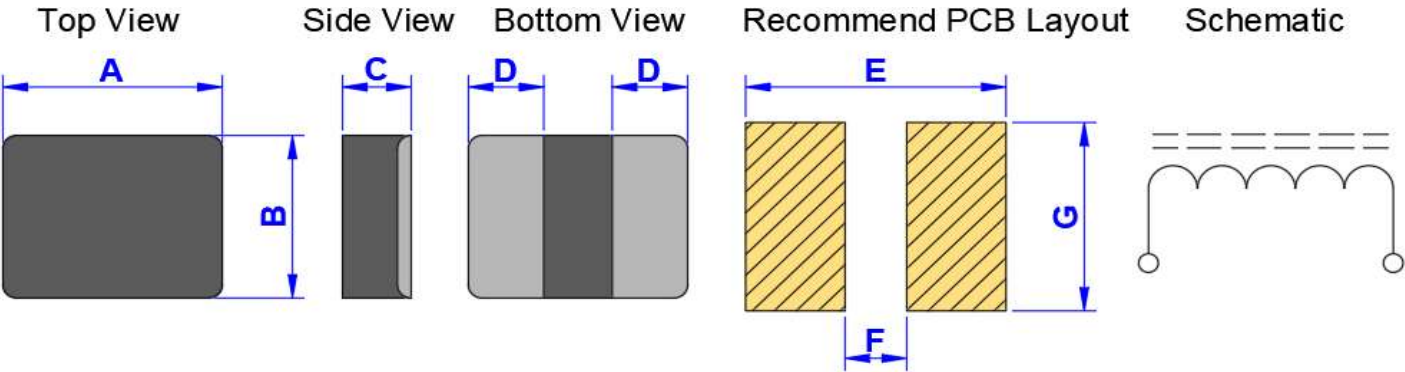
High Current Inductor - GSTD Series Type

| Image                                                                              | Part Name    | L<br>( mm )<br>Typ. | W<br>( mm )<br>Typ. | H<br>( mm )<br>Max. | Inductance Range<br>( uH )<br>M=+/-20% , N=+/-30% |                        |        | DCR<br>( m Ohm )<br>Typ. | Isat<br>( A )<br>Typ. | Irms<br>( A )<br>Typ. | Page |
|------------------------------------------------------------------------------------|--------------|---------------------|---------------------|---------------------|---------------------------------------------------|------------------------|--------|--------------------------|-----------------------|-----------------------|------|
|    | GSTD141208PC | 1.40                | 1.20                | 0.80                | 0.24                                              | <div><div></div></div> | 0.47   | 20.00 ~ 44.00            | 4.50 ~ 7.00           | 3.00 ~ 5.30           | 5    |
|    | GSTD160808PC | 1.60                | 0.80                | 0.80                | 0.47                                              | <div><div></div></div> | 1.00   | 54.00 ~ 105.00           | 2.10 ~ 4.00           | 1.80 ~ 3.00           | 6    |
|    | GSTD201206PC | 2.00                | 1.20                | 0.65                | 0.47                                              | <div><div></div></div> | 2.20   | 47.00 ~ 260.00           | 2.00 ~ 4.00           | 1.10 ~ 4.00           | 7    |
|    | GSTD201208PC | 2.00                | 1.20                | 0.80                | 0.11                                              | <div><div></div></div> | 2.20   | 10.00 ~ 195.00           | 2.20 ~ 11.00          | 1.60 ~ 6.50           | 8    |
|    | GSTD201210PC | 2.00                | 1.20                | 1.00                | 0.24                                              | <div><div></div></div> | 2.20   | 22.00 ~ 145.00           | 2.40 ~ 7.00           | 2.00 ~ 5.00           | 9    |
|    | GSTD201608PC | 2.00                | 1.60                | 0.80                | 0.24                                              | <div><div></div></div> | 2.20   | 18.00 ~ 143.00           | 2.30 ~ 6.90           | 2.00 ~ 4.90           | 10   |
|    | GSTD201610PC | 2.00                | 1.60                | 1.00                | 0.10                                              | <div><div></div></div> | 10.00  | 13.00 ~ 655.00           | 1.00 ~ 11.00          | 0.65 ~ 6.50           | 11   |
|    | GSTD252008PC | 2.50                | 2.00                | 0.80                | 0.47                                              | <div><div></div></div> | 10.00  | 25.00 ~ 575.00           | 1.40 ~ 5.00           | 1.00 ~ 4.00           | 12   |
|    | GSTD252010PC | 2.50                | 2.00                | 1.00                | 0.22                                              | <div><div></div></div> | 10.00  | 9.00 ~ 450.00            | 1.30 ~ 8.30           | 1.00 ~ 5.90           | 13   |
|    | GSTD252012PC | 2.50                | 2.00                | 1.20                | 0.22                                              | <div><div></div></div> | 10.00  | 16.00 ~ 360.00           | 1.50 ~ 9.00           | 1.20 ~ 6.40           | 14   |
|    | GSTD322512PC | 3.20                | 2.50                | 1.20                | 0.22                                              | <div><div></div></div> | 10.00  | 12.00 ~ 288.00           | 1.50 ~ 12.00          | 0.90 ~ 8.00           | 15   |
|    | GSTD322520PC | 3.20                | 2.50                | 2.00                | 1.00                                              | <div><div></div></div> | 4.70   | 17.00 ~ 90.00            | 2.70 ~ 7.00           | 3.00 ~ 6.00           | 16   |
|    | GSTD353220PC | 3.50                | 3.20                | 2.00                | 0.47                                              | <div><div></div></div> | 10.00  | 13.00 ~ 200.00           | 2.50 ~ 11.00          | 2.30 ~ 8.50           | 17   |
|    | GSTD4010PC   | 4.00                | 4.00                | 1.00                | 0.47                                              | <div><div></div></div> | 10.00  | 17.00 ~ 245.00           | 2.00 ~ 8.50           | 1.90 ~ 7.50           | 18   |
|  | GSTD4020PC   | 4.60                | 4.10                | 2.00                | 0.10                                              | <div><div></div></div> | 10.00  | 3.20 ~ 240.00            | 2.00 ~ 25.00          | 1.50 ~ 13.00          | 19   |
|  | GSTD5020PC   | 5.70                | 5.10                | 2.00                | 0.47                                              | <div><div></div></div> | 10.00  | 7.00 ~ 180.00            | 2.80 ~ 12.00          | 2.30 ~ 10.50          | 20   |
|  | GSTD5030PC   | 5.70                | 5.10                | 3.00                | 0.15                                              | <div><div></div></div> | 15.00  | 3.60 ~ 180.00            | 2.50 ~ 25.00          | 2.10 ~ 16.00          | 21   |
|  | GSTD6010PC   | 6.40                | 6.60                | 1.00                | 0.47                                              | <div><div></div></div> | 10.00  | 134.00 ~ 260.00          | 2.50 ~ 3.50           | 1.50 ~ 2.50           | 22   |
|  | GSTD6015PC   | 6.40                | 6.60                | 1.50                | 0.28                                              | <div><div></div></div> | 1.00   | 3.50 ~ 11.50             | 11.00 ~ 26.00         | 11.15 ~ 20.00         | 23   |
|  | GSTD6030PC   | 7.40                | 6.60                | 3.00                | 0.10                                              | <div><div></div></div> | 22.00  | 1.50 ~ 189.00            | 3.10 ~ 60.00          | 2.30 ~ 32.50          | 24   |
|  | GSTD6050PC   | 7.50                | 6.60                | 5.00                | 0.68                                              | <div><div></div></div> | 33.00  | 3.90 ~ 180.00            | 3.00 ~ 17.50          | 2.40 ~ 17.00          | 25   |
|  | GSTD8017PC   | 7.80                | 7.80                | 1.70                | 0.68                                              | <div><div></div></div> | 1.40   | 5.70 ~ 10.80             | 12.00 ~ 23.00         | 11.70 ~ 20.00         | 26   |
|  | GSTD8040PC   | 9.00                | 8.10                | 4.00                | 1.00                                              | <div><div></div></div> | 33.00  | 4.60 ~ 145.00            | 3.50 ~ 17.00          | 2.50 ~ 15.00          | 27   |
|  | GSTD8050PC   | 9.00                | 8.10                | 5.00                | 1.00                                              | <div><div></div></div> | 47.00  | 4.30 ~ 180.00            | 2.60 ~ 18.00          | 2.30 ~ 15.50          | 28   |
|  | GSTD1030PC   | 11.60               | 10.10               | 3.00                | 0.22                                              | <div><div></div></div> | 22.00  | 1.07 ~ 99.00             | 4.00 ~ 50.00          | 3.00 ~ 33.00          | 29   |
|  | GSTD1040PC   | 11.60               | 10.10               | 4.00                | 0.15                                              | <div><div></div></div> | 68.00  | 0.53 ~ 205.00            | 3.00 ~ 60.00          | 2.30 ~ 40.00          | 30   |
|  | GSTD1050PC   | 11.60               | 10.10               | 5.00                | 0.22                                              | <div><div></div></div> | 68.00  | 0.60 ~ 205.00            | 3.50 ~ 65.00          | 2.50 ~ 37.00          | 31   |
|  | GSTD1250PC   | 13.80               | 12.60               | 5.00                | 0.33                                              | <div><div></div></div> | 47.00  | 0.75 ~ 130.00            | 5.00 ~ 62.00          | 3.20 ~ 46.00          | 32   |
|  | GSTD1260PC   | 13.80               | 12.60               | 6.00                | 0.33                                              | <div><div></div></div> | 100.00 | 0.58 ~ 200.00            | 3.50 ~ 65.00          | 2.50 ~ 48.00          | 33   |
|  | GSTD1770PC   | 17.50               | 17.50               | 7.00                | 1.00                                              | <div><div></div></div> | 100.00 | 1.50 ~ 123.00            | 5.00 ~ 55.50          | 5.00 ~ 40.00          | 34   |

|                           |                    |                       |                                                                                 |
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| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD141208PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.20) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 141208    | 1.40        | 1.20        | 0.80     | 0.40        | 1.70     | 0.50     | 1.50     |

Electrical Characteristics :

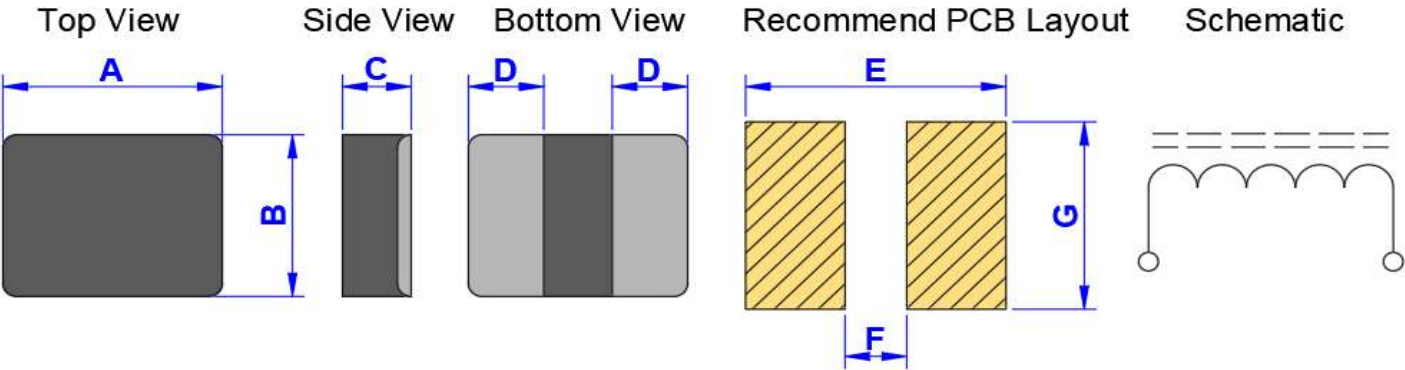
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD141208PC-R24M | 0.24                 | M                       | 20.00         | 23.00 | 7.00          | 6.50 | 5.30          | 4.90 |
| GSTD141208PC-R33M | 0.33                 | M                       | 27.00         | 30.00 | 5.00          | 4.50 | 4.00          | 3.60 |
| GSTD141208PC-R47M | 0.47                 | M                       | 39.00         | 44.00 | 5.00          | 4.50 | 3.20          | 3.00 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 20V

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD160808PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.20) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 160808    | 1.60        | 0.80        | 0.80     | 0.50        | 2.00     | 0.40     | 1.00     |

Electrical Characteristics :

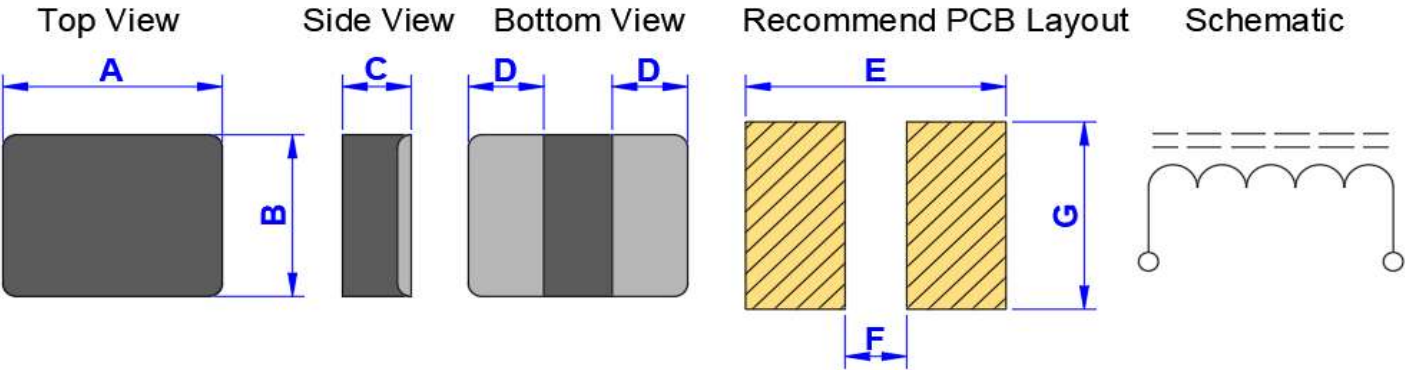
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD160808PC-R47M | 0.47                 | M                       | 54.00         | 62.00 | 4.00          | 3.50 | 3.00          | 2.80 |
| GSTD160808PC-1R0M | 1.00                 | M                       | 148.0         | 160.0 | 2.30          | 2.10 | 2.00          | 1.80 |

- \* Test Condition : @1MHz , 1.0Vrms , 25℃ Ambient
- \* Inductance Tolerance : M = +/-20%
- \* I<sub>rms</sub> : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* Isat : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* Absolute maximum voltage: DC 20V

|                           |                    |                       |                                                                                 |
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| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | 2011.08.08         | <b>Description :</b>  | High Current Inductor                                                           |
| <b>Latest Edit Date :</b> | 2024.08.16         | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD201206PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 201206    | 2.00        | 1.20        | 0.65     | 0.60        | 2.50     | 0.50     | 1.50     |

Electrical Characteristics :

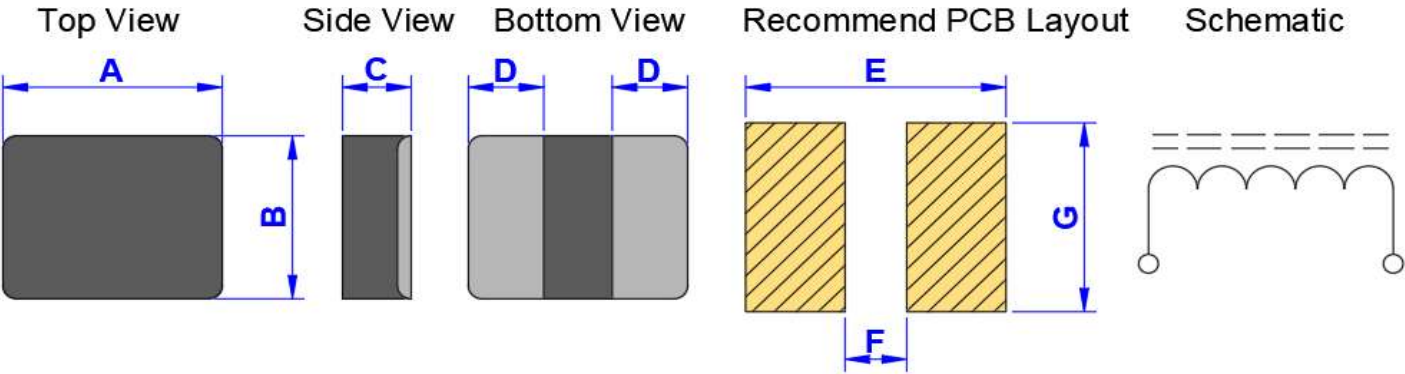
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD201206PC-R47M | 0.47                 | M                       | 47.00         | 54.00 | 4.00          | 3.70 | 4.00          | 3.60 |
| GSTD201206PC-1R0M | 1.00                 | M                       | 92.00         | 105.0 | 3.00          | 2.50 | 2.20          | 2.00 |
| GSTD201206PC-2R2M | 2.20                 | M                       | 236.0         | 260.0 | 2.50          | 2.00 | 1.30          | 1.10 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 20V

|                           |                    |                       |                                                                                 |
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| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD201208PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 201208    | 2.00        | 1.20        | 0.80     | 0.60        | 2.50     | 0.50     | 1.50     |

Electrical Characteristics :

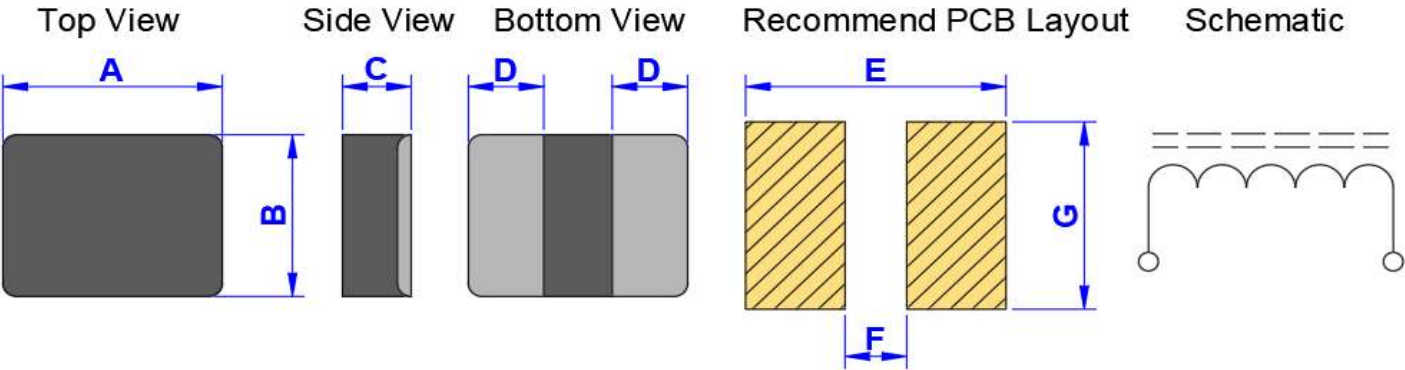
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |       | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|-------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max.  | Typ.          | Max. |
| GSTD201208PC-R11N | 0.11                 | N                       | 10.00         | 13.00 | 11.00         | 10.00 | 6.50          | 5.60 |
| GSTD201208PC-R24M | 0.24                 | M                       | 16.00         | 19.00 | 7.20          | 6.50  | 6.00          | 5.40 |
| GSTD201208PC-R33M | 0.33                 | M                       | 26.00         | 30.00 | 5.60          | 5.10  | 4.30          | 4.00 |
| GSTD201208PC-R47M | 0.47                 | M                       | 36.00         | 41.00 | 5.00          | 4.50  | 4.10          | 3.80 |
| GSTD201208PC-1R0M | 1.00                 | M                       | 88.00         | 100.0 | 3.50          | 3.00  | 2.40          | 2.10 |
| GSTD201208PC-2R2M | 2.20                 | M                       | 170.0         | 195.0 | 2.50          | 2.20  | 1.80          | 1.60 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%,N = +/-30%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 25V

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD201210PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 201210    | 2.00        | 1.20        | 1.00     | 0.60        | 2.50     | 0.50     | 1.50     |

Electrical Characteristics :

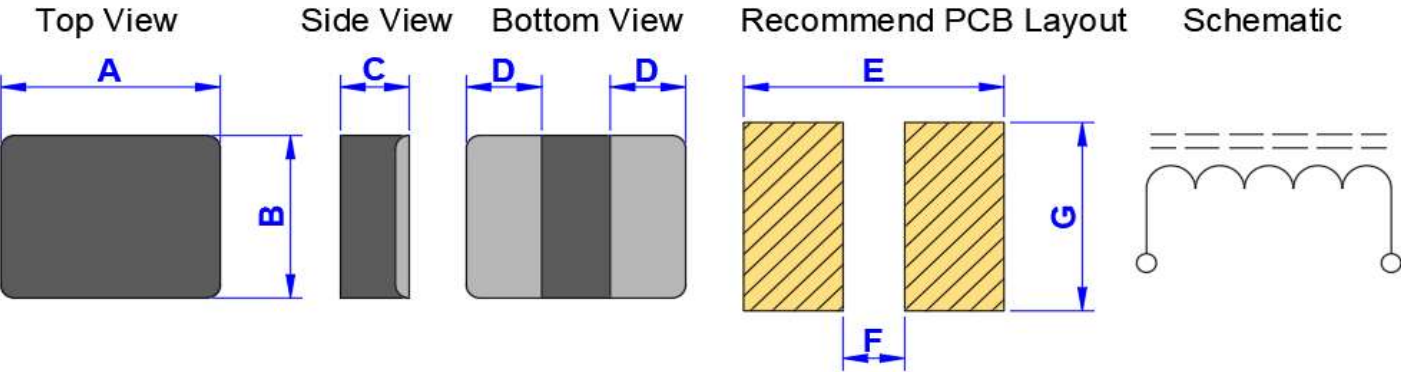
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD201210PC-R24M | 0.24                 | M                       | 22.00         | 25.00 | 7.00          | 6.50 | 5.00          | 4.50 |
| GSTD201210PC-R33M | 0.33                 | M                       | 24.00         | 28.00 | 6.70          | 6.00 | 4.50          | 4.20 |
| GSTD201210PC-R47M | 0.47                 | M                       | 26.00         | 30.00 | 6.10          | 5.40 | 4.30          | 4.00 |
| GSTD201210PC-1R0M | 1.00                 | M                       | 60.00         | 70.00 | 4.20          | 3.50 | 3.60          | 3.00 |
| GSTD201210PC-2R2M | 2.20                 | M                       | 125.0         | 145.0 | 2.70          | 2.40 | 2.20          | 2.00 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | 2011.08.08         | <b>Description :</b>  | High Current Inductor                                                           |
| <b>Latest Edit Date :</b> | 2024.08.16         | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD201608PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.20) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 201608    | 2.00        | 1.60        | 0.80     | 0.50        | 2.50     | 0.50     | 1.80     |

Electrical Characteristics :

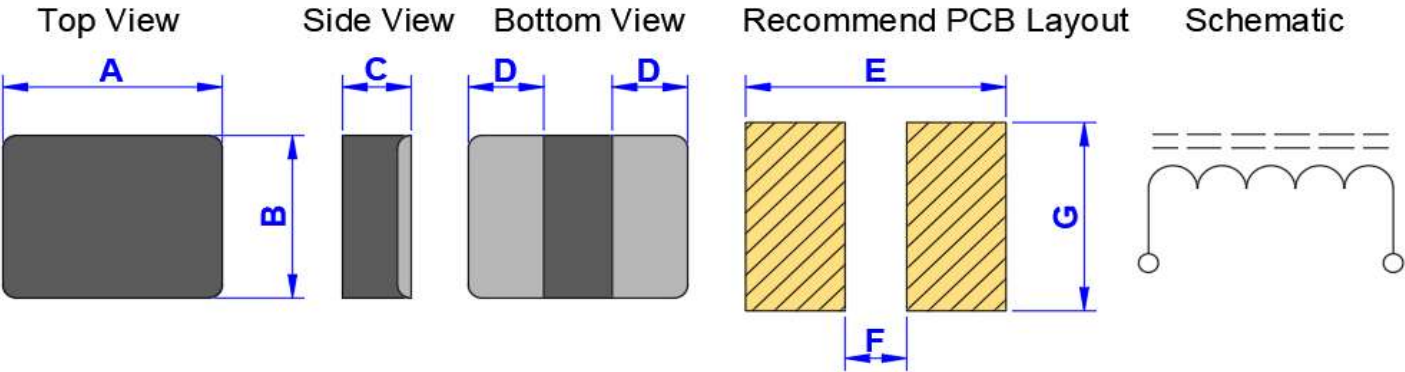
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD201608PC-R24M | 0.24                 | M                       | 18.00         | 22.00 | 6.90          | 6.30 | 4.90          | 4.40 |
| GSTD201608PC-R47M | 0.47                 | M                       | 27.00         | 31.00 | 5.50          | 5.00 | 3.90          | 3.40 |
| GSTD201608PC-1R0M | 1.00                 | M                       | 48.00         | 56.00 | 4.00          | 3.60 | 3.60          | 3.20 |
| GSTD201608PC-2R2M | 2.20                 | M                       | 125.0         | 143.0 | 2.70          | 2.30 | 2.30          | 2.00 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD201610PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.20) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 201610    | 2.00        | 1.60        | 1.00     | 0.50        | 2.50     | 0.50     | 1.80     |

Electrical Characteristics :

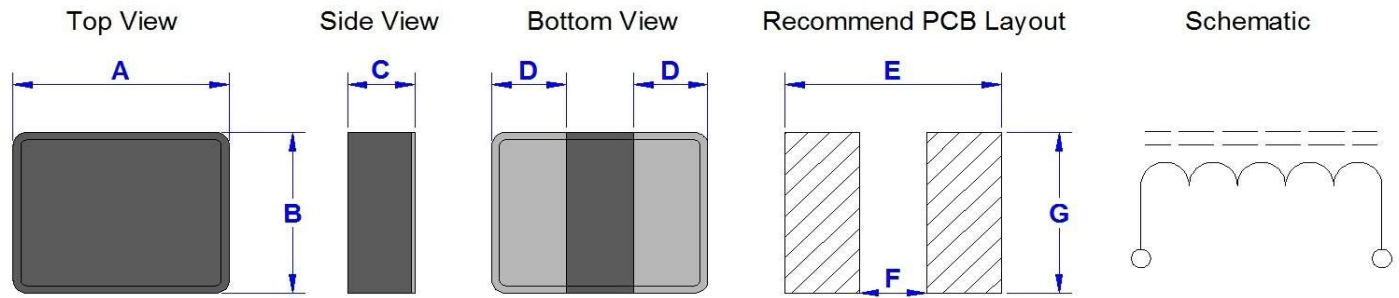
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |       | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|-------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max.  | Typ.          | Max. |
| GSTD201610PC-R10M | 0.10                 | N                       | 13.00         | 15.00 | 11.00         | 10.00 | 6.50          | 6.00 |
| GSTD201610PC-R24M | 0.24                 | M                       | 16.00         | 19.00 | 7.70          | 6.70  | 6.00          | 5.50 |
| GSTD201610PC-R33M | 0.33                 | M                       | 17.00         | 20.00 | 7.00          | 6.20  | 5.80          | 5.30 |
| GSTD201610PC-R47M | 0.47                 | M                       | 23.00         | 28.00 | 5.60          | 5.00  | 5.00          | 4.50 |
| GSTD201610PC-R68M | 0.68                 | M                       | 30.00         | 35.00 | 5.40          | 4.80  | 4.30          | 3.80 |
| GSTD201610PC-1R0M | 1.00                 | M                       | 43.00         | 49.00 | 4.20          | 4.00  | 4.00          | 3.40 |
| GSTD201610PC-1R5M | 1.50                 | M                       | 66.00         | 74.00 | 3.50          | 3.20  | 3.20          | 2.80 |
| GSTD201610PC-2R2M | 2.20                 | M                       | 94.00         | 110.0 | 3.00          | 2.70  | 2.70          | 2.50 |
| GSTD201610PC-3R3M | 3.30                 | M                       | 188.0         | 216.0 | 2.20          | 2.00  | 1.80          | 1.50 |
| GSTD201610PC-4R7M | 4.70                 | M                       | 250.0         | 280.0 | 2.00          | 1.70  | 1.40          | 1.20 |
| GSTD201610PC-6R8M | 6.80                 | M                       | 433.0         | 485.0 | 1.50          | 1.20  | 1.00          | 0.80 |
| GSTD201610PC-100M | 10.00                | M                       | 570.0         | 655.0 | 1.20          | 1.00  | 0.85          | 0.65 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%,N = +/-30%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD252008PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 252008    | 2.50        | 2.00        | 0.80     | 0.80        | 3.20     | 0.80     | 2.20     |

Electrical Characteristics :

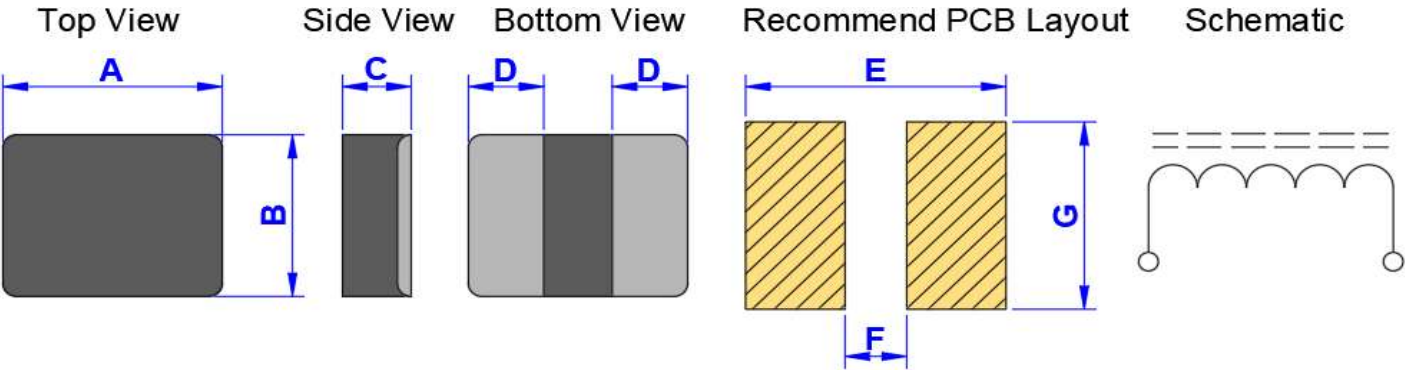
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD252008PC-R47M | 0.47                 | M                       | 25.00         | 29.00 | 5.00          | 4.50 | 4.00          | 3.70 |
| GSTD252008PC-1R0M | 1.00                 | M                       | 45.00         | 51.00 | 4.00          | 3.50 | 3.50          | 3.20 |
| GSTD252008PC-1R5M | 1.50                 | M                       | 60.00         | 69.00 | 4.00          | 3.50 | 3.30          | 3.00 |
| GSTD252008PC-2R2M | 2.20                 | M                       | 95.00         | 109.0 | 3.10          | 2.60 | 2.80          | 2.50 |
| GSTD252008PC-3R3M | 3.30                 | M                       | 132.0         | 150.0 | 2.50          | 2.00 | 2.40          | 2.10 |
| GSTD252008PC-4R7M | 4.70                 | M                       | 180.0         | 207.0 | 2.20          | 1.70 | 1.90          | 1.70 |
| GSTD252008PC-6R8M | 6.80                 | M                       | 280.0         | 322.0 | 2.00          | 1.60 | 1.30          | 1.10 |
| GSTD252008PC-100M | 10.00                | M                       | 500.0         | 575.0 | 1.80          | 1.40 | 1.10          | 1.00 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD252010PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 252010    | 2.50        | 2.00        | 1.00     | 0.80        | 3.20     | 0.80     | 2.20     |

Electrical Characteristics :

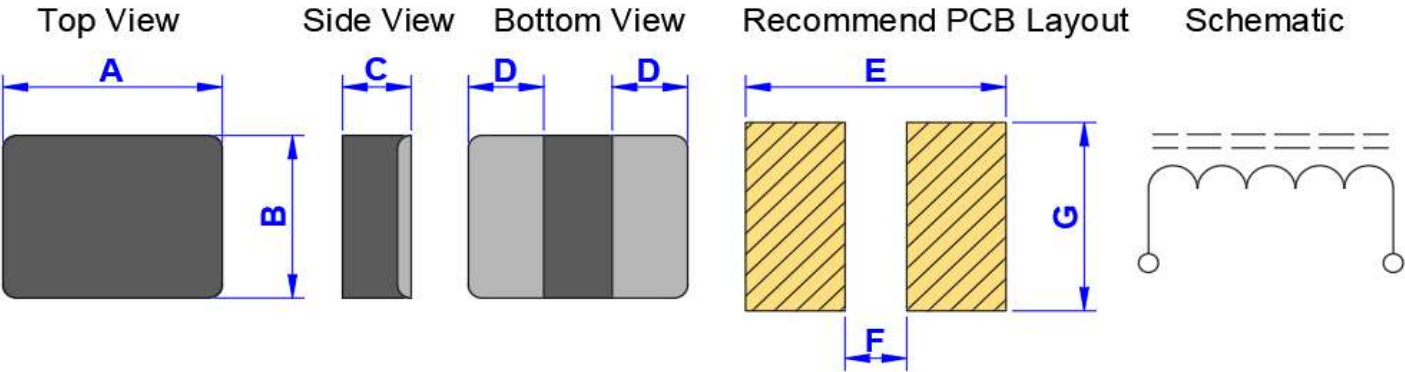
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD252010PC-R22M | 0.22                 | M                       | 9.00          | 12.00 | 8.30          | 8.00 | 5.90          | 5.30 |
| GSTD252010PC-R33M | 0.33                 | M                       | 21.00         | 24.00 | 7.30          | 6.50 | 5.00          | 4.50 |
| GSTD252010PC-R47M | 0.47                 | M                       | 23.00         | 27.00 | 6.10          | 5.60 | 4.80          | 4.30 |
| GSTD252010PC-R68M | 0.68                 | M                       | 25.00         | 30.00 | 5.70          | 5.00 | 4.50          | 4.00 |
| GSTD252010PC-1R0M | 1.00                 | M                       | 40.00         | 46.00 | 4.50          | 4.00 | 3.70          | 3.40 |
| GSTD252010PC-1R2M | 1.20                 | M                       | 54.00         | 63.00 | 4.50          | 4.00 | 3.50          | 3.20 |
| GSTD252010PC-1R5M | 1.50                 | M                       | 60.00         | 69.00 | 4.10          | 3.20 | 3.30          | 3.00 |
| GSTD252010PC-2R2M | 2.20                 | M                       | 82.00         | 94.00 | 3.50          | 3.00 | 2.50          | 2.20 |
| GSTD252010PC-3R3M | 3.30                 | M                       | 125.0         | 144.0 | 2.70          | 2.30 | 2.10          | 1.80 |
| GSTD252010PC-4R7M | 4.70                 | M                       | 223.0         | 256.0 | 2.30          | 2.00 | 1.36          | 1.22 |
| GSTD252010PC-6R8M | 6.80                 | M                       | 251.0         | 290.0 | 2.10          | 1.80 | 1.30          | 1.10 |
| GSTD252010PC-100M | 10.00                | M                       | 388.0         | 450.0 | 1.50          | 1.30 | 1.20          | 1.00 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD252012PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 252012    | 2.50        | 2.00        | 1.20     | 0.80        | 3.20     | 0.80     | 2.20     |

Electrical Characteristics :

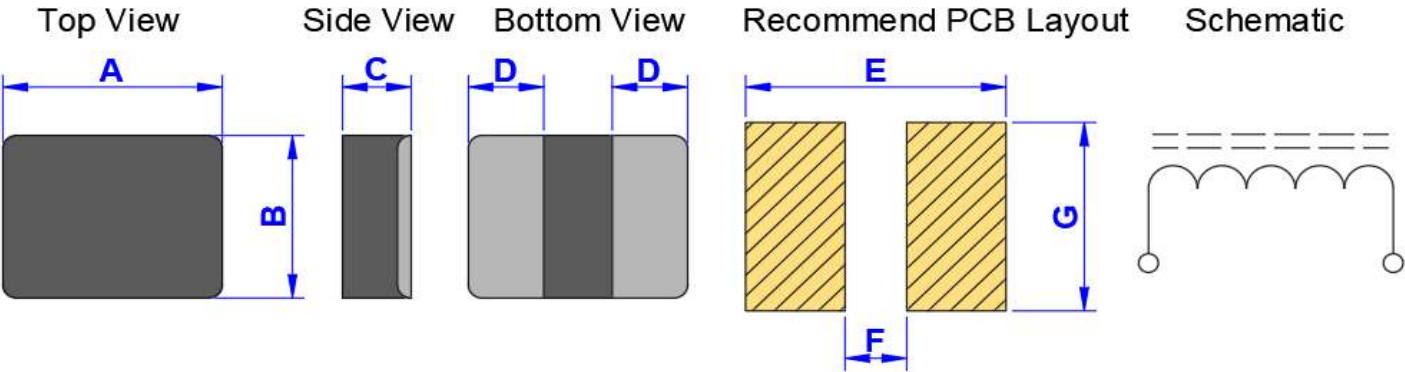
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD252012PC-R22M | 0.22                 | M                       | 16.00         | 19.00 | 9.00          | 8.50 | 6.40          | 5.60 |
| GSTD252012PC-R24M | 0.24                 | M                       | 16.00         | 19.00 | 9.00          | 8.50 | 6.40          | 5.60 |
| GSTD252012PC-R33M | 0.33                 | M                       | 16.00         | 19.00 | 7.50          | 6.60 | 6.40          | 5.60 |
| GSTD252012PC-R47M | 0.47                 | M                       | 21.00         | 24.00 | 6.50          | 5.70 | 4.70          | 4.20 |
| GSTD252012PC-R68M | 0.68                 | M                       | 23.00         | 30.00 | 5.30          | 4.60 | 4.50          | 4.00 |
| GSTD252012PC-1R0M | 1.00                 | M                       | 32.00         | 36.00 | 4.80          | 4.30 | 4.10          | 3.60 |
| GSTD252012PC-1R5M | 1.50                 | M                       | 46.00         | 53.00 | 4.20          | 3.60 | 3.70          | 3.40 |
| GSTD252012PC-2R2M | 2.20                 | M                       | 70.00         | 84.00 | 3.50          | 3.00 | 2.70          | 2.40 |
| GSTD252012PC-3R3M | 3.30                 | M                       | 100.0         | 120.0 | 2.50          | 2.20 | 2.00          | 1.70 |
| GSTD252012PC-4R7M | 4.70                 | M                       | 144.0         | 167.0 | 2.40          | 2.00 | 1.80          | 1.60 |
| GSTD252012PC-6R8M | 6.80                 | M                       | 234.0         | 269.0 | 1.90          | 1.50 | 1.60          | 1.40 |
| GSTD252012PC-8R2M | 8.20                 | M                       | 264.0         | 350.0 | 1.80          | 1.50 | 1.50          | 1.30 |
| GSTD252012PC-100M | 10.00                | M                       | 310.0         | 360.0 | 1.70          | 1.50 | 1.40          | 1.20 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD322512PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 322512    | 3.20        | 2.50        | 1.20     | 0.80        | 3.70     | 1.30     | 2.90     |

Electrical Characteristics :

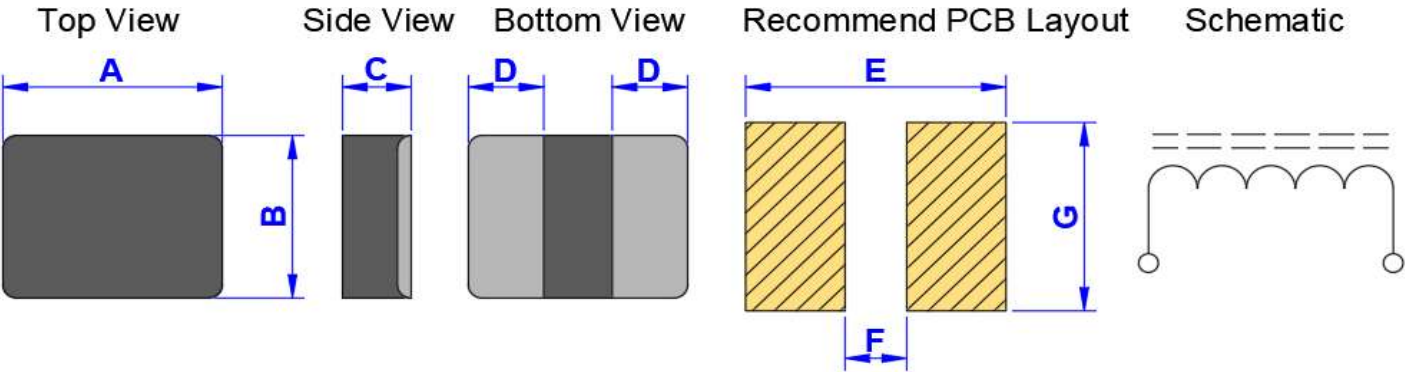
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |       | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|-------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max.  | Typ.          | Max. |
| GSTD322512PC-R22M | 0.22                 | M                       | 12.00         | 14.00 | 12.00         | 11.00 | 8.00          | 7.00 |
| GSTD322512PC-R47M | 0.47                 | M                       | 16.00         | 19.00 | 8.20          | 7.50  | 7.00          | 6.50 |
| GSTD322512PC-R68M | 0.68                 | M                       | 21.00         | 24.00 | 7.60          | 7.00  | 6.20          | 5.70 |
| GSTD322512PC-1R0M | 1.00                 | M                       | 26.00         | 30.00 | 6.50          | 5.70  | 5.50          | 5.00 |
| GSTD322512PC-1R5M | 1.50                 | M                       | 38.00         | 44.00 | 5.00          | 4.50  | 4.50          | 4.00 |
| GSTD322512PC-2R2M | 2.20                 | M                       | 58.00         | 67.00 | 4.50          | 4.00  | 4.10          | 3.70 |
| GSTD322512PC-3R3M | 3.30                 | M                       | 77.00         | 88.00 | 3.60          | 3.30  | 3.30          | 3.00 |
| GSTD322512PC-4R7M | 4.70                 | M                       | 113.0         | 130.0 | 3.00          | 2.70  | 3.00          | 2.60 |
| GSTD322512PC-6R8M | 6.80                 | M                       | 180.0         | 207.0 | 2.80          | 2.40  | 1.60          | 1.30 |
| GSTD322512PC-100M | 10.00                | M                       | 250.0         | 288.0 | 1.90          | 1.50  | 1.00          | 0.90 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | 2011.08.08         | <b>Description :</b>  | High Current Inductor                                                           |
| <b>Latest Edit Date :</b> | 2024.08.16         | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD322520PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 322520    | 3.20        | 2.50        | 2.00     | 0.80        | 3.70     | 1.30     | 2.90     |

Electrical Characteristics :

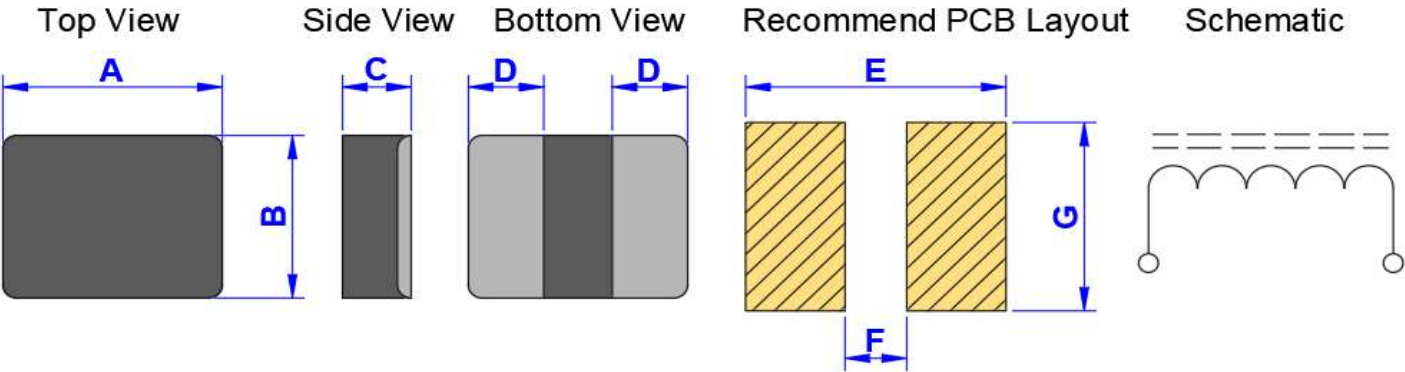
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD322520PC-1R0M | 1.00                 | M                       | 17.00         | 21.00 | 7.00          | 6.50 | 6.00          | 5.50 |
| GSTD322520PC-2R2M | 2.20                 | M                       | 35.00         | 42.00 | 5.00          | 4.50 | 4.40          | 4.00 |
| GSTD322520PC-3R3M | 3.30                 | M                       | 60.00         | 72.00 | 4.20          | 3.50 | 4.00          | 3.60 |
| GSTD322520PC-4R7M | 4.70                 | M                       | 75.00         | 90.00 | 3.20          | 2.70 | 3.40          | 3.00 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD353220PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 353220    | 3.50        | 3.20        | 2.00     | 1.00        | 4.40     | 1.6      | 3.50     |

Electrical Characteristics :

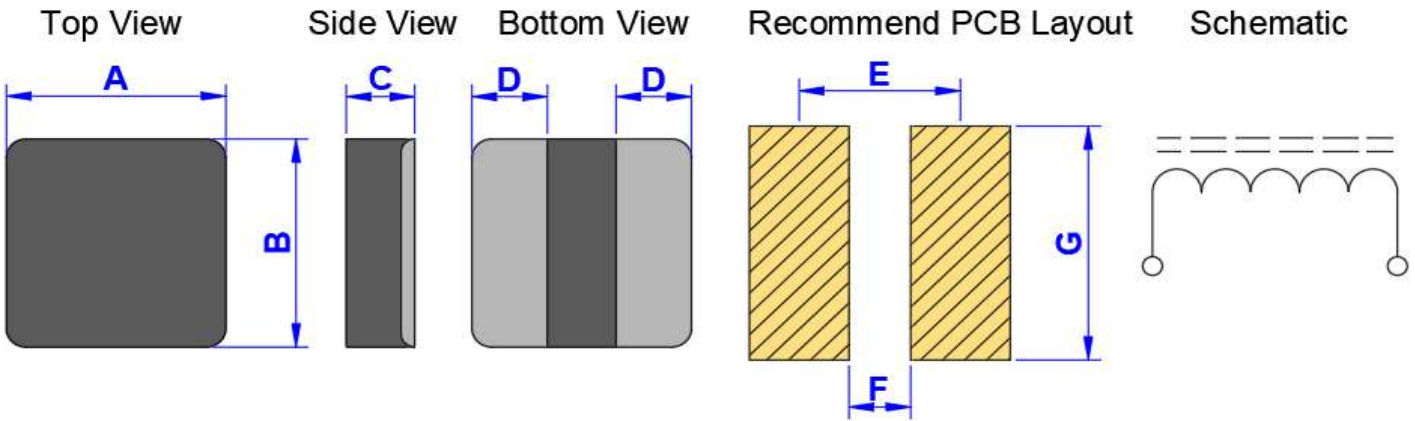
| Part No.          | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-------------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                   |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD353220PC-R47M | 0.47                 | M                       | 13.00         | 15.00 | 11.00         | 9.00 | 8.50          | 8.00 |
| GSTD353220PC-1R0M | 1.00                 | M                       | 20.00         | 24.00 | 7.50          | 7.00 | 7.00          | 6.60 |
| GSTD353220PC-1R5M | 1.50                 | M                       | 28.00         | 33.00 | 7.10          | 6.60 | 5.50          | 5.20 |
| GSTD353220PC-2R2M | 2.20                 | M                       | 33.00         | 40.00 | 6.00          | 5.50 | 5.00          | 4.50 |
| GSTD353220PC-3R3M | 3.30                 | M                       | 58.00         | 64.00 | 5.50          | 5.00 | 4.00          | 3.50 |
| GSTD353220PC-4R7M | 4.70                 | M                       | 70.00         | 80.00 | 4.20          | 3.70 | 3.50          | 3.20 |
| GSTD353220PC-6R8M | 6.80                 | M                       | 151.0         | 174.0 | 3.30          | 2.80 | 2.90          | 2.60 |
| GSTD353220PC-100M | 10.00                | M                       | 175.0         | 200.0 | 3.00          | 2.50 | 2.60          | 2.30 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD4010PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.30) | B (+/-0.30) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 4010      | 4.00        | 4.00        | 1.00     | 1.10        | 4.50     | 1.50     | 4.50     |

Electrical Characteristics :

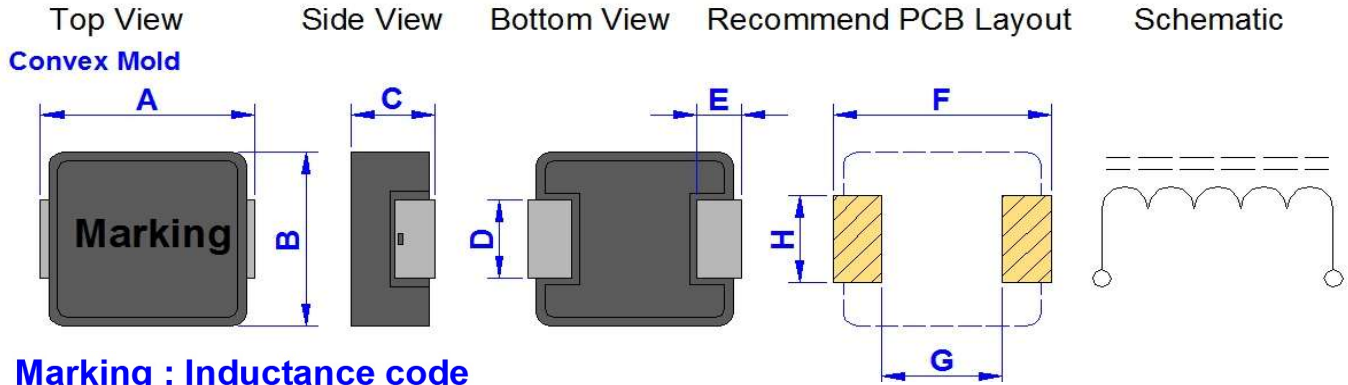
| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD4010PC-R47M | 0.47                 | M                       | 17.00         | 20.00 | 8.50          | 7.50 | 7.50          | 6.50 |
| GSTD4010PC-1R0M | 1.00                 | M                       | 33.00         | 38.00 | 6.50          | 5.50 | 3.70          | 3.40 |
| GSTD4010PC-2R2M | 2.20                 | M                       | 58.00         | 67.00 | 5.30          | 4.70 | 3.60          | 3.20 |
| GSTD4010PC-4R7M | 4.70                 | M                       | 124.0         | 143.0 | 3.50          | 3.00 | 2.80          | 2.50 |
| GSTD4010PC-6R8M | 6.80                 | M                       | 155.0         | 180.0 | 3.00          | 2.50 | 2.30          | 2.10 |
| GSTD4010PC-100M | 10.00                | M                       | 210.0         | 245.0 | 2.40          | 2.00 | 2.10          | 1.90 |

- \* **Test Condition :** @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance :** M = +/-20%
- \* **Irms :** For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat :** Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage:** DC 25V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD4020PC-SERIES

Dimension [ mm ] :



**Marking : Inductance code**

| Size Code | A (+/-0.25) | B (+/-0.35) | C (Max.) | D (+/-0.30) | E (+/-0.30) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|-------------|----------|----------|
| 4020      | 4.60        | 4.10        | 2.00     | 1.50        | 0.76        | 4.96     | 2.44     |
|           | H (Ref.)    |             |          |             |             |          |          |
|           | 2.00        |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( $\mu$ H ) | Inductance<br>Tolerance | DCR<br>( $m\Omega$ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|---------------------------|-------------------------|----------------------|-------|---------------|---------------|
|                 |                           |                         | Typ.                 | Max.  | Typ.          | Typ.          |
| GSTD4020PC-R10N | 0.10                      | N                       | 3.20                 | 4.00  | 25.00         | 13.00         |
| GSTD4020PC-R22M | 0.22                      | M                       | 5.40                 | 6.60  | 12.50         | 9.50          |
| GSTD4020PC-R33M | 0.33                      | M                       | 10.00                | 12.50 | 11.00         | 8.50          |
| GSTD4020PC-R47M | 0.47                      | M                       | 12.00                | 14.00 | 10.00         | 7.50          |
| GSTD4020PC-R68M | 0.68                      | M                       | 14.00                | 18.00 | 8.00          | 7.00          |
| GSTD4020PC-1R0M | 1.00                      | M                       | 22.00                | 27.00 | 7.00          | 6.00          |
| GSTD4020PC-1R5M | 1.50                      | M                       | 36.00                | 46.00 | 6.00          | 5.00          |
| GSTD4020PC-2R2M | 2.20                      | M                       | 48.00                | 58.00 | 5.00          | 4.00          |
| GSTD4020PC-3R3M | 3.30                      | M                       | 74.00                | 87.00 | 4.00          | 3.30          |
| GSTD4020PC-4R7M | 4.70                      | M                       | 98.00                | 120.0 | 3.00          | 2.40          |
| GSTD4020PC-6R8M | 6.80                      | M                       | 130.0                | 160.0 | 2.50          | 2.00          |
| GSTD4020PC-8R2M | 8.20                      | M                       | 190.0                | 216.0 | 2.20          | 1.80          |
| GSTD4020PC-100M | 10.00                     | M                       | 210.0                | 240.0 | 2.00          | 1.50          |

\* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient

\* **Inductance Tolerance** : M = +/-20%,N = +/-30%

\* **Irms** : DC current (A) that will cause an approximate  $\Delta T$  of 40℃

\* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.

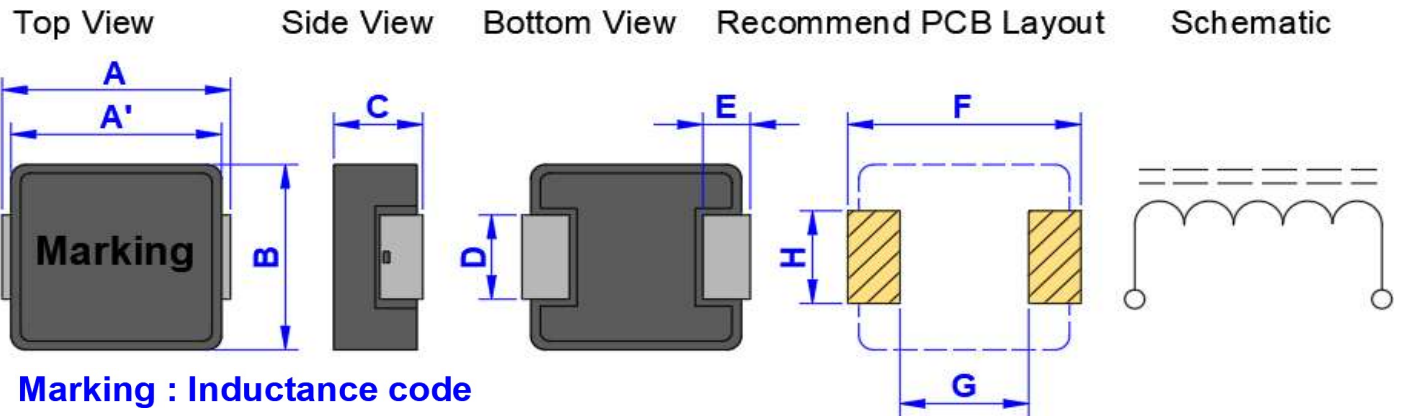
\* **GSTD4020PC-8R2M、GSTD4020PC-100M Absolute maximum voltage**: DC 50V.

\* **Other Part No. Absolute maximum voltage**: DC 75V.

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD5020PC-SERIES

Dimension [ mm ] :



Marking : Inductance code

| Size Code | A (+/-0.25) | A' (+/-0.35) | B (+/-0.35) | C (Max.) | D (+/-0.30) | E (+/-0.30) | F (Ref.) |
|-----------|-------------|--------------|-------------|----------|-------------|-------------|----------|
| 5020      | 5.70        | 5.10         | 5.10        | 2.00     | 2.30        | 1.30        | 6.00     |
|           | G (Ref.)    | H (Ref.)     |             |          |             |             |          |
|           | 2.20        | 2.80         |             |          |             |             |          |

Electrical Characteristics :

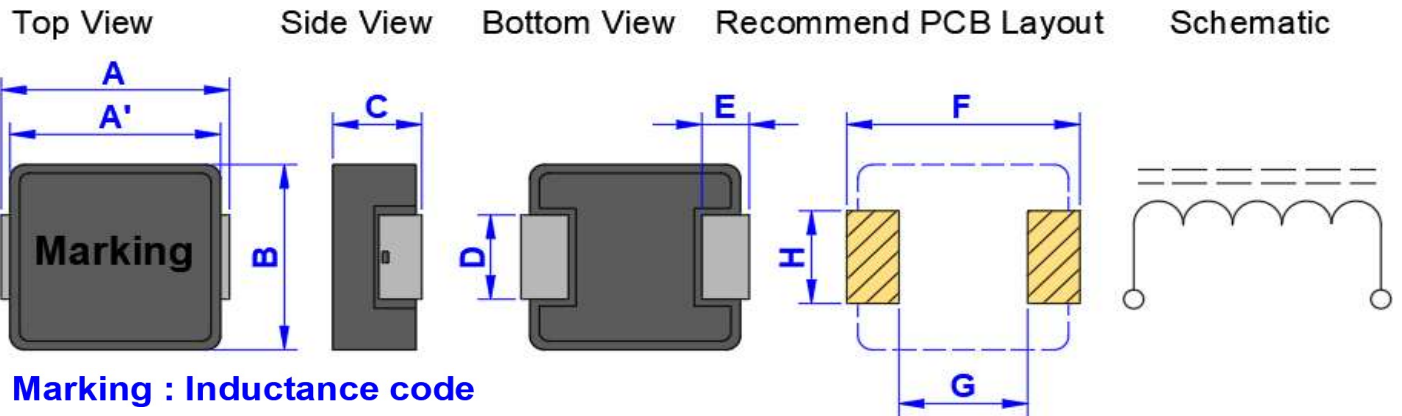
| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD5020PC-R47M | 0.47                 | M                       | 7.00          | 9.00  | 12.00         | 10.50         |
| GSTD5020PC-R68M | 0.68                 | M                       | 10.00         | 13.00 | 10.00         | 9.00          |
| GSTD5020PC-1R0M | 1.00                 | M                       | 16.50         | 20.00 | 9.00          | 7.00          |
| GSTD5020PC-1R5M | 1.50                 | M                       | 26.00         | 32.00 | 6.50          | 5.50          |
| GSTD5020PC-2R2M | 2.20                 | M                       | 32.00         | 42.00 | 6.00          | 4.50          |
| GSTD5020PC-3R3M | 3.30                 | M                       | 55.00         | 68.00 | 5.00          | 3.50          |
| GSTD5020PC-4R7M | 4.70                 | M                       | 82.00         | 95.00 | 4.00          | 3.00          |
| GSTD5020PC-5R6M | 5.60                 | M                       | 100.0         | 108.0 | 3.80          | 2.90          |
| GSTD5020PC-6R8M | 6.80                 | M                       | 108.0         | 130.0 | 3.50          | 2.80          |
| GSTD5020PC-100M | 10.00                | M                       | 152.0         | 180.0 | 2.80          | 2.30          |

- \* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : DC current (A) that will cause an approximate ΔT of 40℃
- \* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.
- \* **GSTD5020PC-100M Absolute maximum voltage**: DC 50V.
- \* **Other Part No. Absolute maximum voltage**: DC 75V.

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD5030PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.25) | A' (+/-0.35) | B (+/-0.35) | C (Max.) | D (+/-0.30) | E (+/-0.30) | F (Ref.) |
|-----------|-------------|--------------|-------------|----------|-------------|-------------|----------|
| 5030      | 5.70        | 5.10         | 5.10        | 3.00     | 2.30        | 1.30        | 6.00     |
|           | G (Ref.)    | H (Ref.)     |             |          |             |             |          |
|           | 2.20        | 2.80         |             |          |             |             |          |

Electrical Characteristics :

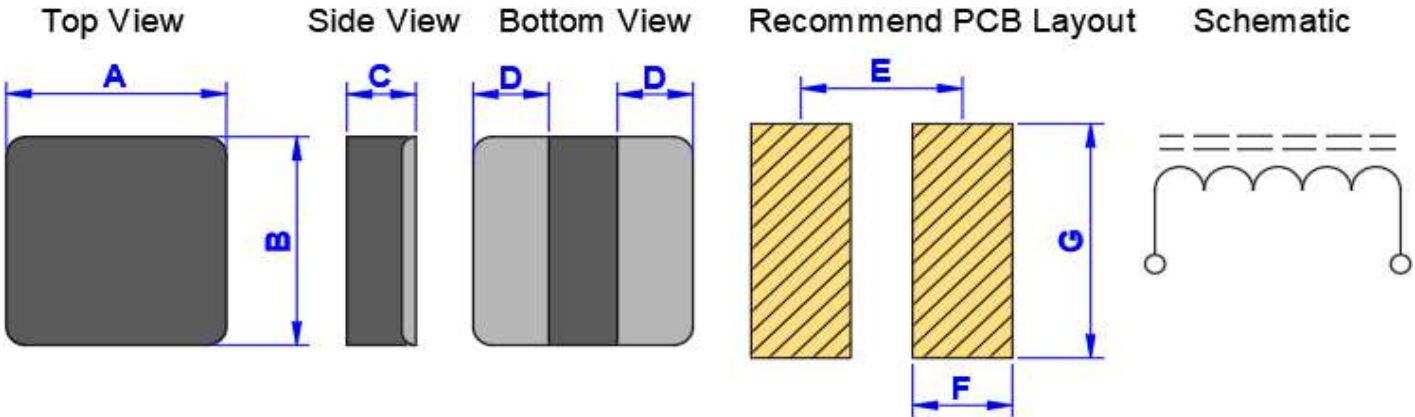
| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD5030PC-R15M | 0.15                 | M                       | 3.37          | 4.50  | 20.20         | 14.00         |
| GSTD5030PC-R22M | 0.22                 | M                       | 3.60          | 4.40  | 25.00         | 16.00         |
| GSTD5030PC-R33M | 0.33                 | M                       | 5.20          | 6.50  | 18.00         | 14.00         |
| GSTD5030PC-R47M | 0.47                 | M                       | 6.50          | 7.50  | 16.00         | 12.00         |
| GSTD5030PC-R68M | 0.68                 | M                       | 9.50          | 12.00 | 12.00         | 9.50          |
| GSTD5030PC-1R0M | 1.00                 | M                       | 11.50         | 14.00 | 9.50          | 8.00          |
| GSTD5030PC-1R2M | 1.20                 | M                       | 13.50         | 16.00 | 8.80          | 7.80          |
| GSTD5030PC-1R5M | 1.50                 | M                       | 17.00         | 25.00 | 8.50          | 6.50          |
| GSTD5030PC-2R2M | 2.20                 | M                       | 25.00         | 35.00 | 8.00          | 5.50          |
| GSTD5030PC-3R3M | 3.30                 | M                       | 33.00         | 42.00 | 6.00          | 5.00          |
| GSTD5030PC-4R7M | 4.70                 | M                       | 50.00         | 60.00 | 5.00          | 4.20          |
| GSTD5030PC-6R8M | 6.80                 | M                       | 65.00         | 78.00 | 4.50          | 3.90          |
| GSTD5030PC-8R2M | 8.20                 | M                       | 105.0         | 115.0 | 4.00          | 3.30          |
| GSTD5030PC-100M | 10.00                | M                       | 112.0         | 125.0 | 3.50          | 2.70          |
| GSTD5030PC-150M | 15.00                | M                       | 150.0         | 180.0 | 2.50          | 2.10          |

- \* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : DC current (A) that will cause an approximate ΔT of 40℃
- \* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.
- \* **Absolute maximum voltage**: DC 75V

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD6010PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 6010      | 6.40        | 6.60        | 1.00     | 1.80        | 5.00     | 2.00     | 7.00     |

Electrical Characteristics :

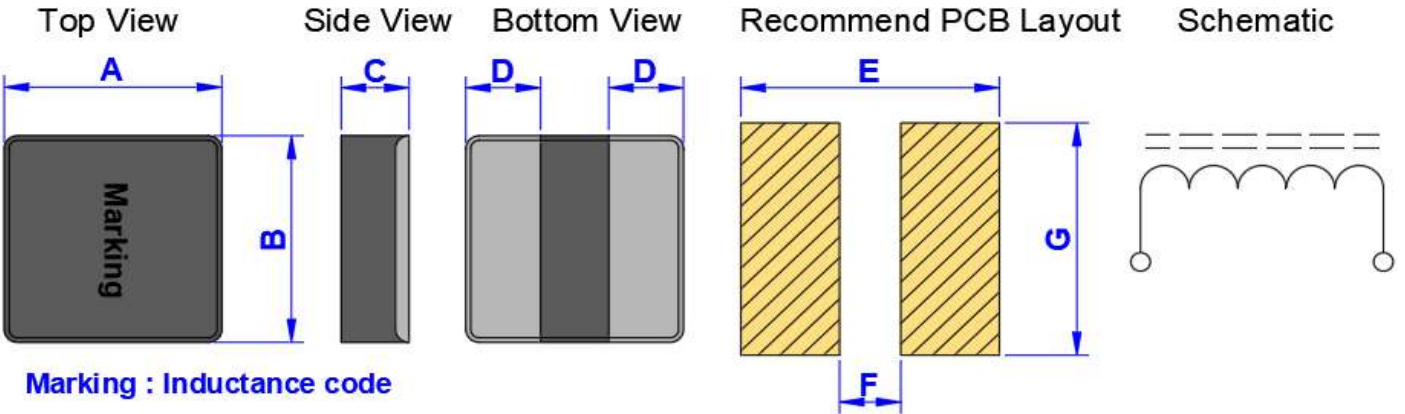
| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |      | Irms<br>( A ) |      |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|------|---------------|------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Max. | Typ.          | Max. |
| GSTD6010PC-4R7M | 4.70                 | M                       | 134.0         | 154.0 | 3.50          | 3.00 | 2.50          | 2.20 |
| GSTD6010PC-6R8M | 6.80                 | M                       | 164.0         | 197.0 | 3.20          | 2.70 | 2.00          | 1.80 |
| GSTD6010PC-100M | 10.00                | M                       | 230.0         | 260.0 | 3.00          | 2.50 | 1.70          | 1.50 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 30V

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD6015PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.20) | B (+/-0.20) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 6015      | 6.40        | 6.60        | 1.50     | 2.10        | 7.50     | 2.50     | 7.00     |

Electrical Characteristics :

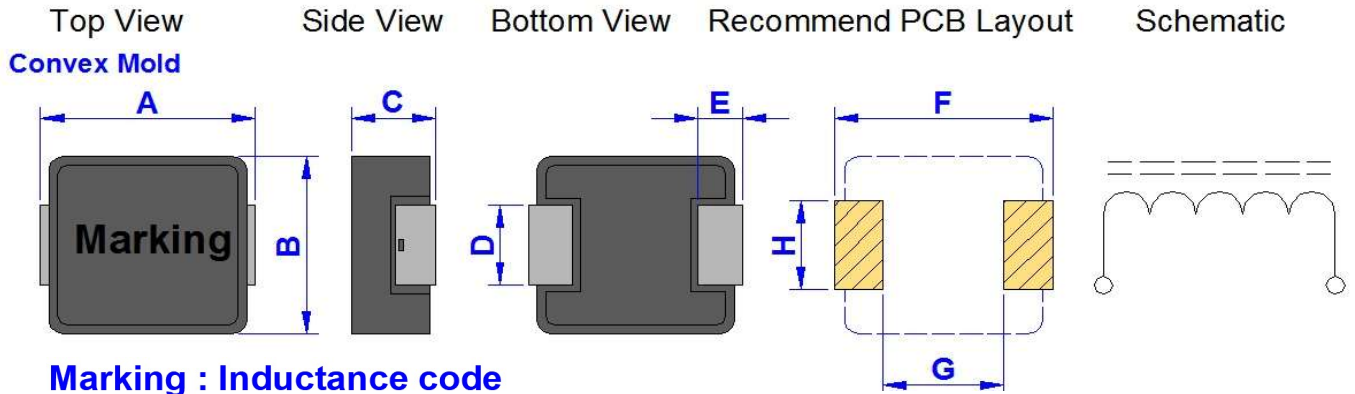
| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |       | Irms<br>( A ) |       |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|-------|---------------|-------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Max.  | Typ.          | Max.  |
| GSTD6015PC-R28M | 0.28                 | M                       | 3.50          | 4.50  | 26.00         | 23.00 | 20.00         | 18.00 |
| GSTD6015PC-1R0M | 1.00                 | M                       | 8.50          | 11.50 | 13.00         | 11.00 | 12.80         | 11.15 |

- \* Test Condition : @1MHz , 1.0Vrms , 25℃ Ambient
- \* Inductance Tolerance : M = +/-20%
- \* Irms : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* Isat : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* Absolute maximum voltage: DC 30V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD6030PC-SERIES

Dimension [ mm ] :



**Marking : Inductance code**

| Size Code | A (Max.) | B (+/-0.20) | C (Max.) | D (+/-0.20) | E (+/-0.30) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 6030      | 7.40     | 6.60        | 3.00     | 3.00        | 1.60        | 8.40     | 3.70     |
|           | H (Ref.) |             |          |             |             |          |          |
|           | 3.50     |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD6030PC-R10N | 0.10                 | N                       | 1.50          | 1.70  | 60.00         | 32.50         |
| GSTD6030PC-R15N | 0.15                 | N                       | 1.90          | 2.50  | 50.00         | 30.00         |
| GSTD6030PC-R22M | 0.22                 | M                       | 2.50          | 3.00  | 34.00         | 24.00         |
| GSTD6030PC-R33M | 0.33                 | M                       | 3.00          | 3.50  | 25.00         | 21.00         |
| GSTD6030PC-R47M | 0.47                 | M                       | 3.50          | 4.10  | 20.00         | 18.00         |
| GSTD6030PC-R68M | 0.68                 | M                       | 4.80          | 5.30  | 17.00         | 16.00         |
| GSTD6030PC-R82M | 0.82                 | M                       | 6.00          | 7.00  | 16.00         | 14.00         |
| GSTD6030PC-1R0M | 1.00                 | M                       | 7.00          | 7.50  | 15.00         | 12.00         |
| GSTD6030PC-1R5M | 1.50                 | M                       | 10.60         | 12.10 | 12.50         | 11.00         |
| GSTD6030PC-2R2M | 2.20                 | M                       | 15.50         | 17.50 | 10.00         | 9.50          |
| GSTD6030PC-3R3M | 3.30                 | M                       | 23.00         | 26.00 | 9.50          | 8.50          |
| GSTD6030PC-4R7M | 4.70                 | M                       | 34.50         | 38.00 | 6.50          | 5.50          |
| GSTD6030PC-6R8M | 6.80                 | M                       | 47.00         | 50.00 | 6.00          | 5.00          |
| GSTD6030PC-8R2M | 8.20                 | M                       | 58.50         | 65.00 | 6.00          | 4.70          |
| GSTD6030PC-100M | 10.00                | M                       | 64.00         | 68.00 | 5.00          | 4.50          |
| GSTD6030PC-150M | 15.00                | M                       | 106.0         | 115.0 | 3.80          | 3.00          |
| GSTD6030PC-220M | 22.00                | M                       | 165.0         | 189.0 | 3.10          | 2.30          |

\* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient

\* **Inductance Tolerance** : M = +/-20%,N = +/-30%

\* **Irms** : DC current (A) that will cause an approximate  $\Delta T$  of 40℃

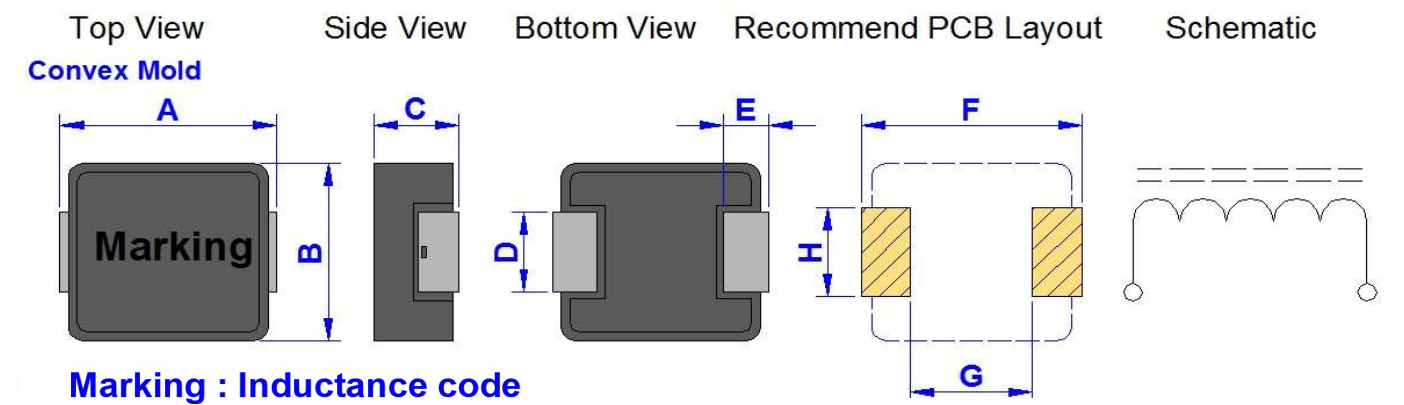
\* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.

\* **Absolute maximum voltage**: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD6050PC-SERIES

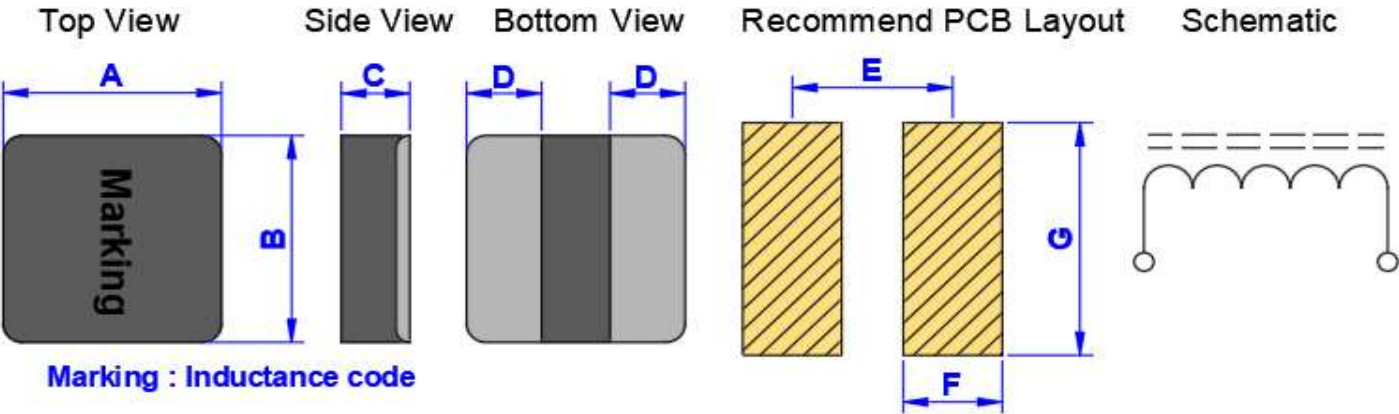
Dimension [ mm ] :



|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD8017PC-SERIES

Dimension [ mm ] :



| Size Code | A (+/-0.30) | B (+/-0.30) | C (Max.) | D (+/-0.30) | E (Ref.) | F (Ref.) | G (Ref.) |
|-----------|-------------|-------------|----------|-------------|----------|----------|----------|
| 8017      | 7.80        | 7.80        | 1.70     | 2.60        | 8.50     | 3.00     | 8.40     |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) |       | Irms<br>( A ) |       |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|-------|---------------|-------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Max.  | Typ.          | Max.  |
| GSTD8017PC-R68M | 0.68                 | M                       | 5.70          | 6.80  | 23.00         | 20.00 | 20.00         | 18.10 |
| GSTD8017PC-R90M | 0.90                 | M                       | 7.50          | 9.00  | 17.00         | 15.00 | 16.00         | 13.80 |
| GSTD8017PC-1R4M | 1.40                 | M                       | 7.80          | 10.80 | 14.00         | 12.00 | 13.00         | 11.70 |

- \* **Test Condition** : @1MHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : For Max. Value, ΔT<40℃; for Typ. Value, ΔT is approximate 40℃.
- \* **Isat** : Max.Value, DC current at which the inductance drops less than 30% from its value without current;  
Typ. Value, DC current at which the inductance drops 30% from its value without current.
- \* **Absolute maximum voltage**: DC 30V

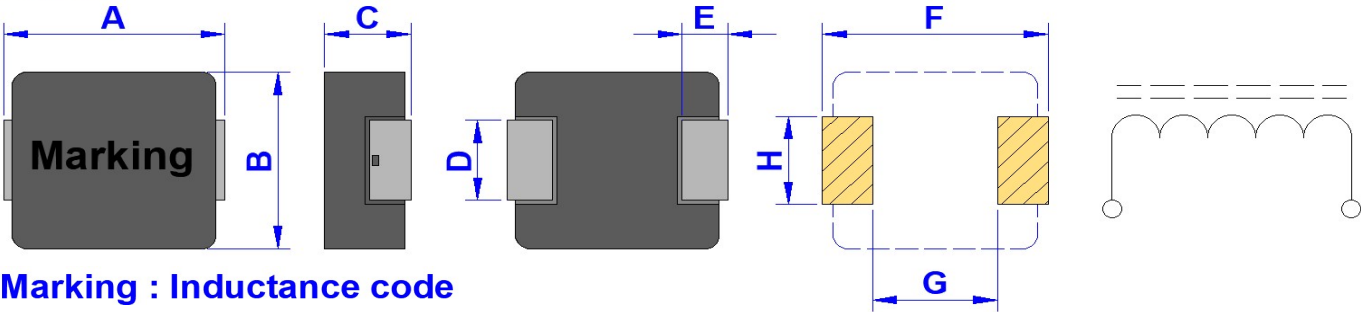
|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD8040PC-SERIES

Dimension [ mm ] :

Top View      Side View      Bottom View      Recommend PCB Layout      Schematic

Flat Mold



Marking : Inductance code

| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.30) | E (+/-0.30) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 8040      | 9.00     | 8.10        | 4.00     | 3.00        | 1.90        | 9.4      | 4.7      |
|           | H (Ref.) |             |          |             |             |          |          |
|           | 3.5      |             |          |             |             |          |          |

Electrical Characteristics :

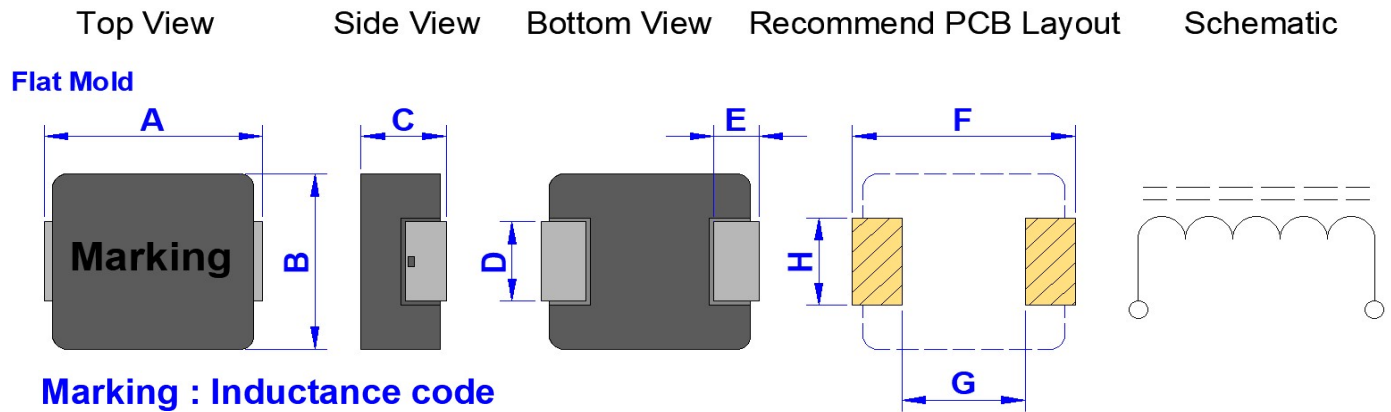
| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD8040PC-1R0M | 1.00                 | M                       | 4.60          | 6.00  | 17.00         | 15.00         |
| GSTD8040PC-2R2M | 2.20                 | M                       | 8.60          | 11.30 | 14.00         | 11.00         |
| GSTD8040PC-3R3M | 3.30                 | M                       | 12.00         | 15.00 | 12.00         | 10.50         |
| GSTD8040PC-4R7M | 4.70                 | M                       | 23.00         | 26.50 | 11.50         | 8.50          |
| GSTD8040PC-5R6M | 5.60                 | M                       | 27.50         | 30.00 | 10.00         | 8.00          |
| GSTD8040PC-6R8M | 6.80                 | M                       | 30.00         | 36.00 | 8.20          | 7.00          |
| GSTD8040PC-100M | 10.00                | M                       | 53.00         | 60.00 | 7.50          | 4.50          |
| GSTD8040PC-150M | 15.00                | M                       | 60.00         | 70.00 | 5.50          | 4.00          |
| GSTD8040PC-220M | 22.00                | M                       | 95.00         | 112.0 | 5.00          | 2.80          |
| GSTD8040PC-330M | 33.00                | M                       | 130.0         | 145.0 | 3.50          | 2.50          |

- \* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : DC current (A) that will cause an approximate ΔT of 40℃
- \* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.
- \* **Absolute maximum voltage**: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD8050PC-SERIES

Dimension [ mm ] :



| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.30) | E (+/-0.30) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 8050      | 9.00     | 8.10        | 5.00     | 3.00        | 1.90        | 9.4      | 4.7      |
|           | H (Ref.) |             |          |             |             |          |          |
|           | 3.5      |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD8050PC-1R0M | 1.00                 | M                       | 4.30          | 5.60  | 18.00         | 15.50         |
| GSTD8050PC-2R2M | 2.20                 | M                       | 8.20          | 9.00  | 13.00         | 11.50         |
| GSTD8050PC-3R3M | 3.30                 | M                       | 11.20         | 14.50 | 12.00         | 10.70         |
| GSTD8050PC-4R7M | 4.70                 | M                       | 15.50         | 20.00 | 10.50         | 9.00          |
| GSTD8050PC-6R8M | 6.80                 | M                       | 27.00         | 33.00 | 8.80          | 7.50          |
| GSTD8050PC-100M | 10.00                | M                       | 35.00         | 43.00 | 7.50          | 6.50          |
| GSTD8050PC-150M | 15.00                | M                       | 56.00         | 66.00 | 6.50          | 4.30          |
| GSTD8050PC-220M | 22.00                | M                       | 68.00         | 75.00 | 6.00          | 3.80          |
| GSTD8050PC-330M | 33.00                | M                       | 125.0         | 143.0 | 4.50          | 2.60          |
| GSTD8050PC-470M | 47.00                | M                       | 150.0         | 180.0 | 2.60          | 2.30          |

- \* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : DC current (A) that will cause an approximate ΔT of 40℃
- \* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.
- \* **Absolute maximum voltage**: DC 75V

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD1030PC-SERIES

Dimension [ mm ] :

Top View

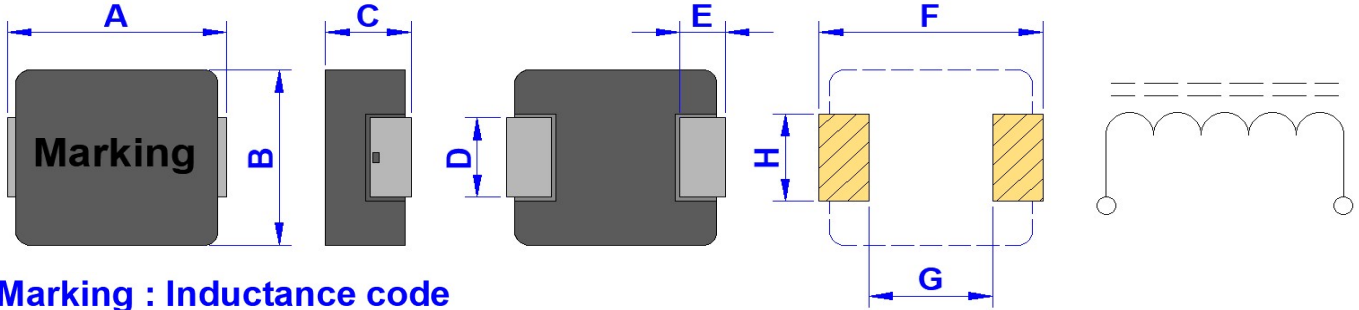
Side View

Bottom View

Recommend PCB Layout

Schematic

Flat Mold



Marking : Inductance code

| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.50) | E (+/-0.50) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 1030      | 11.60    | 10.10       | 3.00     | 3.00        | 2.50        | 13.00    | 6.00     |
|           | H (Ref.) |             |          |             |             |          |          |
|           | 4.00     |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( $\mu$ H) | Inductance<br>Tolerance | DCR<br>( $m\Omega$ ) |       | Isat<br>(A) | Irms<br>(A) |
|-----------------|--------------------------|-------------------------|----------------------|-------|-------------|-------------|
|                 |                          |                         | Typ.                 | Max.  | Typ.        | Typ.        |
| GSTD1030PC-R22M | 0.22                     | M                       | 1.07                 | 1.20  | 50.00       | 33.00       |
| GSTD1030PC-R33M | 0.33                     | M                       | 1.30                 | 1.60  | 32.00       | 23.00       |
| GSTD1030PC-R47M | 0.47                     | M                       | 2.10                 | 2.50  | 26.00       | 22.00       |
| GSTD1030PC-R56M | 0.56                     | M                       | 2.40                 | 3.00  | 24.00       | 20.00       |
| GSTD1030PC-R68M | 0.68                     | M                       | 2.90                 | 3.40  | 23.00       | 18.00       |
| GSTD1030PC-1R0M | 1.00                     | M                       | 5.50                 | 6.00  | 21.00       | 15.00       |
| GSTD1030PC-1R5M | 1.50                     | M                       | 6.50                 | 7.50  | 18.00       | 13.00       |
| GSTD1030PC-2R2M | 2.20                     | M                       | 8.00                 | 9.00  | 13.00       | 12.00       |
| GSTD1030PC-3R3M | 3.30                     | M                       | 14.50                | 16.00 | 12.00       | 10.00       |
| GSTD1030PC-4R7M | 4.70                     | M                       | 20.50                | 25.00 | 10.00       | 8.00        |
| GSTD1030PC-5R6M | 5.60                     | M                       | 27.00                | 30.00 | 9.00        | 7.50        |
| GSTD1030PC-6R8M | 6.80                     | M                       | 30.00                | 35.00 | 7.50        | 7.00        |
| GSTD1030PC-8R2M | 8.20                     | M                       | 35.00                | 45.00 | 7.00        | 5.00        |
| GSTD1030PC-100M | 10.00                    | M                       | 50.00                | 55.00 | 6.50        | 4.80        |
| GSTD1030PC-150M | 15.00                    | M                       | 59.00                | 65.00 | 5.00        | 4.00        |
| GSTD1030PC-220M | 22.00                    | M                       | 90.00                | 99.00 | 4.00        | 3.00        |

\* Test Condition : @100KHz , 1.0Vrms , 25°C Ambient

\* Inductance Tolerance : M = +/-20%

\* I<sub>rms</sub> : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

\* Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

\* Absolute maximum voltage: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD1040PC-SERIES

Dimension [ mm ] :

Top View

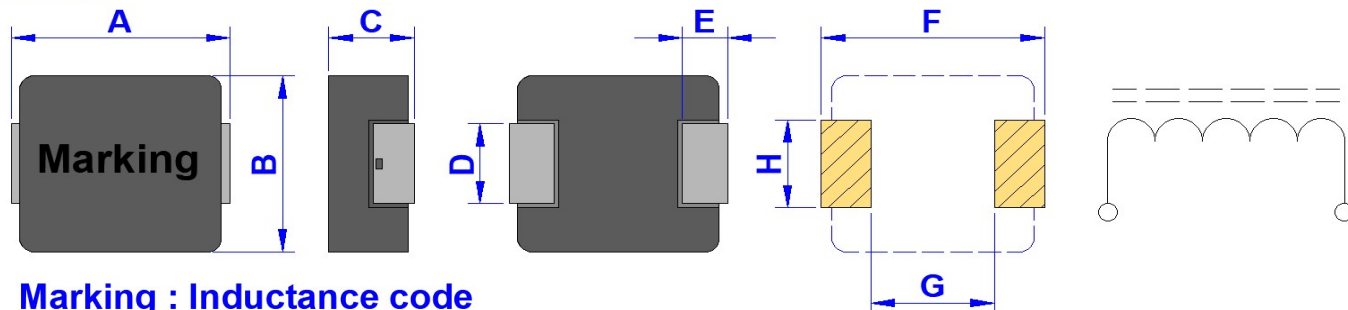
Side View

Bottom View

Recommend PCB Layout

Schematic

Flat Mold



Marking : Inductance code

| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.50) | E (+/-0.50) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 1040PC    | 11.60    | 10.10       | 4.00     | 3.00        | 2.50        | 13.00    | 6.00     |
|           | H (Ref.) |             |          |             |             |          |          |
|           | 4.00     |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD1040PC-R15N | 0.15                 | N                       | 0.53          | 0.65  | 60.00         | 40.00         |
| GSTD1040PC-R22M | 0.22                 | M                       | 0.90          | 1.10  | 55.00         | 35.00         |
| GSTD1040PC-R36M | 0.36                 | M                       | 1.05          | 1.20  | 42.00         | 33.00         |
| GSTD1040PC-R47M | 0.47                 | M                       | 1.53          | 1.68  | 38.00         | 30.00         |
| GSTD1040PC-R56M | 0.56                 | M                       | 1.60          | 1.80  | 32.00         | 25.00         |
| GSTD1040PC-R68M | 0.68                 | M                       | 1.90          | 2.40  | 30.00         | 23.00         |
| GSTD1040PC-R82M | 0.82                 | M                       | 2.00          | 2.80  | 26.00         | 20.00         |
| GSTD1040PC-1R0M | 1.00                 | M                       | 3.00          | 3.30  | 26.00         | 19.00         |
| GSTD1040PC-1R5M | 1.50                 | M                       | 3.80          | 4.20  | 22.00         | 17.50         |
| GSTD1040PC-2R2M | 2.20                 | M                       | 6.00          | 7.00  | 16.00         | 14.00         |
| GSTD1040PC-3R3M | 3.30                 | M                       | 10.80         | 11.80 | 13.00         | 11.00         |
| GSTD1040PC-4R7M | 4.70                 | M                       | 14.00         | 16.50 | 12.00         | 9.00          |
| GSTD1040PC-5R6M | 5.60                 | M                       | 15.50         | 18.00 | 11.00         | 8.50          |
| GSTD1040PC-6R8M | 6.80                 | M                       | 22.50         | 25.00 | 10.00         | 8.00          |
| GSTD1040PC-8R2M | 8.20                 | M                       | 25.00         | 27.00 | 9.00          | 7.60          |
| GSTD1040PC-100M | 10.00                | M                       | 27.00         | 30.00 | 8.50          | 7.00          |
| GSTD1040PC-150M | 15.00                | M                       | 40.00         | 45.00 | 6.00          | 6.30          |
| GSTD1040PC-220M | 22.00                | M                       | 60.00         | 66.00 | 5.50          | 5.00          |
| GSTD1040PC-330M | 33.00                | M                       | 85.00         | 92.00 | 4.50          | 4.40          |
| GSTD1040PC-470M | 47.00                | M                       | 130.0         | 150.0 | 4.00          | 3.00          |
| GSTD1040PC-680M | 68.00                | M                       | 185.0         | 205.0 | 3.00          | 2.30          |

\* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient

\* **Inductance Tolerance** : M = +/-20%,N = +/-30%

\* **Irms** : DC current (A) that will cause an approximate  $\Delta T$  of 40℃

\* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.

\* **Absolute maximum voltage**: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD1050PC-SERIES

Dimension [ mm ] :

Top View

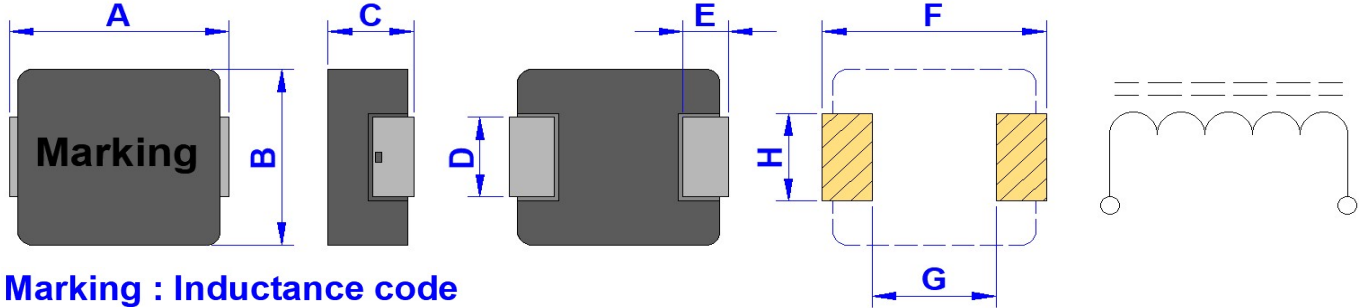
Side View

Bottom View

Recommend PCB Layout

Schematic

Flat Mold



Marking : Inductance code

| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.50) | E (+/-0.50) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 1050PC    | 11.60    | 10.10       | 5.00     | 3.00        | 2.50        | 13.00    | 6.00     |
|           | H (Ref.) |             |          |             |             |          |          |
|           | 4.00     |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|
|                 |                      |                         | Typ.          | Max.  | Typ.          | Typ.          |
| GSTD1050PC-R22M | 0.22                 | M                       | 0.60          | 0.80  | 65.00         | 37.00         |
| GSTD1050PC-1R0M | 1.00                 | M                       | 2.30          | 2.80  | 28.00         | 23.00         |
| GSTD1050PC-1R5M | 1.50                 | M                       | 3.20          | 3.80  | 25.00         | 21.00         |
| GSTD1050PC-1R8M | 1.80                 | M                       | 3.50          | 5.00  | 24.00         | 18.00         |
| GSTD1050PC-2R2M | 2.20                 | M                       | 5.50          | 6.60  | 20.00         | 15.00         |
| GSTD1050PC-3R3M | 3.30                 | M                       | 9.20          | 11.00 | 18.00         | 13.00         |
| GSTD1050PC-4R7M | 4.70                 | M                       | 12.00         | 15.00 | 15.00         | 11.00         |
| GSTD1050PC-5R6M | 5.60                 | M                       | 13.50         | 16.50 | 14.00         | 9.50          |
| GSTD1050PC-6R8M | 6.80                 | M                       | 18.00         | 19.20 | 13.00         | 9.00          |
| GSTD1050PC-100M | 10.00                | M                       | 23.00         | 28.00 | 10.00         | 8.00          |
| GSTD1050PC-150M | 15.00                | M                       | 35.00         | 42.00 | 7.00          | 6.50          |
| GSTD1050PC-220M | 22.00                | M                       | 60.00         | 66.00 | 6.00          | 5.50          |
| GSTD1050PC-330M | 33.00                | M                       | 70.00         | 84.00 | 5.00          | 4.50          |
| GSTD1050PC-470M | 47.00                | M                       | 130.0         | 150.0 | 4.50          | 3.00          |
| GSTD1050PC-680M | 68.00                | M                       | 185.0         | 205.0 | 3.50          | 2.50          |

\* **Test Condition** : @100KHz , 1.0Vrms , 25°C Ambient

\* **Inductance Tolerance** : M = +/-20%

\* **Irms** : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

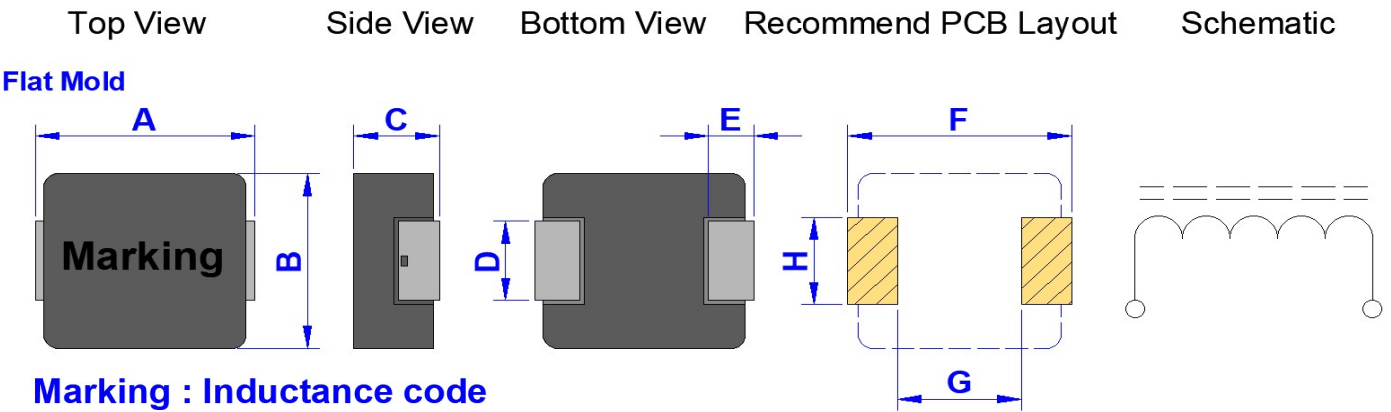
\* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.

\* **Absolute maximum voltage**: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

GSTD1250PC-SERIES

Dimension [ mm ] :



| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.50) | E (+/-0.70) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 1250PC    | 13.80    | 12.60       | 5.00     | By Item     | 2.70        | 14.50    | 6.50     |
|           | H (Ref.) |             |          |             |             |          |          |
|           | By Item  |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) | Size D<br>(mm) | Size H<br>(mm) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|----------------|----------------|
|                 |                      |                         | Typ.          | Max.  |               |               |                |                |
| GSTD1250PC-R33M | 0.33                 | M                       | 0.75          | 0.90  | 62.00         | 46.00         | 3.50           | 4.50           |
| GSTD1250PC-R36M | 0.36                 | M                       | 0.77          | 1.10  | 60.00         | 41.00         | 3.50           | 4.50           |
| GSTD1250PC-R47M | 0.47                 | M                       | 1.00          | 1.30  | 46.00         | 37.00         | 3.50           | 4.50           |
| GSTD1250PC-1R0M | 1.00                 | M                       | 1.90          | 2.50  | 37.00         | 26.00         | 3.00           | 4.00           |
| GSTD1250PC-1R5M | 1.50                 | M                       | 2.60          | 3.50  | 30.00         | 25.00         | 3.50           | 4.50           |
| GSTD1250PC-1R8M | 1.80                 | M                       | 2.80          | 3.70  | 26.00         | 24.00         | 3.50           | 4.50           |
| GSTD1250PC-2R2M | 2.20                 | M                       | 4.30          | 5.00  | 25.00         | 16.00         | 3.00           | 4.00           |
| GSTD1250PC-3R3M | 3.30                 | M                       | 7.50          | 9.00  | 20.00         | 15.00         | 3.50           | 4.50           |
| GSTD1250PC-4R7M | 4.70                 | M                       | 9.00          | 11.00 | 16.00         | 14.00         | 3.50           | 4.50           |
| GSTD1250PC-5R6M | 5.60                 | M                       | 12.00         | 15.00 | 15.00         | 13.00         | 3.50           | 4.50           |
| GSTD1250PC-6R8M | 6.80                 | M                       | 17.00         | 20.00 | 14.00         | 11.00         | 3.50           | 4.50           |
| GSTD1250PC-8R2M | 8.20                 | M                       | 19.00         | 24.00 | 13.00         | 9.50          | 3.50           | 4.50           |
| GSTD1250PC-100M | 10.00                | M                       | 24.00         | 29.00 | 11.00         | 9.00          | 3.50           | 4.50           |
| GSTD1250PC-150M | 15.00                | M                       | 30.00         | 32.00 | 9.00          | 8.00          | 3.50           | 4.50           |
| GSTD1250PC-220M | 22.00                | M                       | 42.00         | 50.00 | 7.00          | 6.00          | 3.50           | 4.50           |
| GSTD1250PC-330M | 33.00                | M                       | 68.00         | 84.00 | 6.00          | 5.00          | 3.50           | 4.50           |
| GSTD1250PC-470M | 47.00                | M                       | 115.0         | 130.0 | 5.00          | 3.20          | 3.50           | 4.50           |

- \* **Test Condition** : @100KHz , 1.0Vrms , 25℃ Ambient
- \* **Inductance Tolerance** : M = +/-20%
- \* **Irms** : DC current (A) that will cause an approximate ΔT of 40℃
- \* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.
- \* **Absolute maximum voltage**: DC 75V

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD1260PC-SERIES

Dimension [ mm ] :

Top View

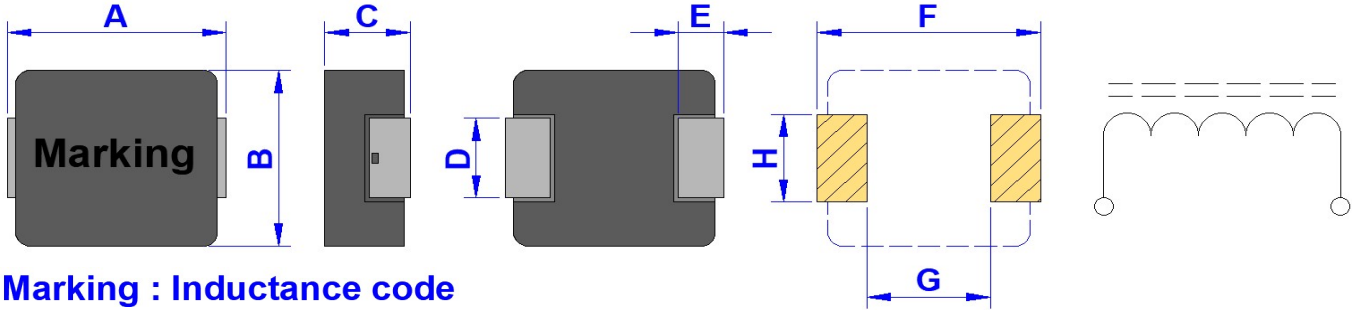
Side View

Bottom View

Recommend PCB Layout

Schematic

Flat Mold



Marking : Inductance code

| Size Code | A (Max.) | B (+/-0.30) | C (Max.) | D (+/-0.50) | E (+/-0.70) | F (Ref.) | G (Ref.) |
|-----------|----------|-------------|----------|-------------|-------------|----------|----------|
| 1260PC    | 13.80    | 12.60       | 6.00     | By Item     | 2.70        | 14.50    | 6.50     |
|           | H (Ref.) |             |          |             |             |          |          |
|           | By Item  |             |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( uH ) | Inductance<br>Tolerance | DCR<br>( mΩ ) |       | Isat<br>( A ) | Irms<br>( A ) | Size D<br>(mm) | Size H<br>(mm) |
|-----------------|----------------------|-------------------------|---------------|-------|---------------|---------------|----------------|----------------|
|                 |                      |                         | Typ.          | Max.  |               |               |                |                |
| GSTD1260PC-R33M | 0.33                 | M                       | 0.58          | 0.80  | 65.00         | 48.00         | 3.50           | 4.50           |
| GSTD1260PC-1R0M | 1.00                 | M                       | 1.40          | 1.70  | 35.00         | 33.00         | 3.50           | 4.50           |
| GSTD1260PC-1R5M | 1.50                 | M                       | 2.20          | 3.00  | 31.00         | 28.00         | 3.50           | 4.50           |
| GSTD1260PC-2R2M | 2.20                 | M                       | 3.50          | 4.20  | 26.00         | 23.00         | 3.00           | 4.00           |
| GSTD1260PC-3R3M | 3.30                 | M                       | 5.60          | 6.80  | 23.00         | 20.00         | 3.00           | 4.00           |
| GSTD1260PC-4R7M | 4.70                 | M                       | 7.00          | 8.40  | 20.00         | 19.00         | 3.00           | 4.00           |
| GSTD1260PC-6R8M | 6.80                 | M                       | 12.50         | 13.50 | 15.00         | 15.00         | 3.50           | 4.50           |
| GSTD1260PC-8R2M | 8.20                 | M                       | 13.60         | 16.00 | 14.00         | 13.00         | 3.50           | 4.50           |
| GSTD1260PC-100M | 10.00                | M                       | 17.00         | 20.70 | 12.50         | 11.00         | 3.50           | 4.50           |
| GSTD1260PC-150M | 15.00                | M                       | 26.00         | 29.00 | 9.20          | 9.00          | 3.50           | 4.50           |
| GSTD1260PC-180M | 18.00                | M                       | 30.00         | 35.00 | 8.00          | 7.80          | 3.50           | 4.50           |
| GSTD1260PC-220M | 22.00                | M                       | 33.00         | 39.00 | 7.50          | 7.00          | 3.50           | 4.50           |
| GSTD1260PC-270M | 27.00                | M                       | 42.00         | 60.00 | 7.00          | 6.50          | 3.50           | 4.50           |
| GSTD1260PC-330M | 33.00                | M                       | 55.00         | 66.00 | 6.50          | 6.00          | 3.50           | 4.50           |
| GSTD1260PC-470M | 47.00                | M                       | 76.00         | 88.00 | 6.00          | 5.20          | 3.50           | 4.50           |
| GSTD1260PC-680M | 68.00                | M                       | 115.0         | 130.0 | 5.00          | 3.50          | 3.50           | 4.50           |
| GSTD1260PC-820M | 82.00                | M                       | 118.0         | 132.0 | 4.00          | 3.00          | 3.50           | 4.50           |
| GSTD1260PC-101M | 100.00               | M                       | 170.0         | 200.0 | 3.50          | 2.50          | 3.50           | 4.50           |

\* Test Condition : @100KHz , 1.0Vrms , 25°C Ambient

\* Inductance Tolerance : M = +/-20%

\* Irms : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

\* Isat : DC current (A) that will cause L0 to drop approximately 30% Typ.

\* Absolute maximum voltage: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

## GSTD1770PC-SERIES

Dimension [ mm ] :

Top View

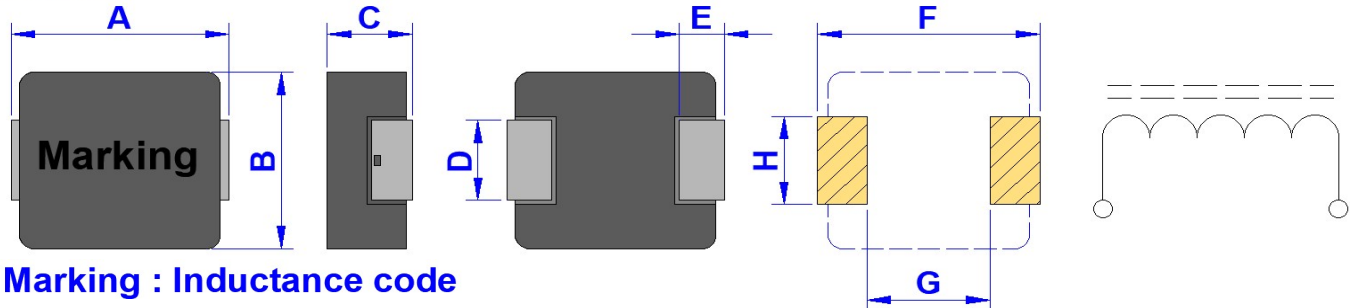
Side View

Bottom View

Recommend PCB Layout

Schematic

Flat Mold



Marking : Inductance code

| Size Code | A (+/-1.00) | B (Max.) | C (Max.) | D (+/-0.30) | E (+/-0.50) | F (Ref.) | G (Ref.) |
|-----------|-------------|----------|----------|-------------|-------------|----------|----------|
| 1770PC    | 17.50       | 17.50    | 7.00     | 11.94       | 2.50        | 17.20    | 10.40    |
|           | H (Ref.)    |          |          |             |             |          |          |
|           | 12.60       |          |          |             |             |          |          |

Electrical Characteristics :

| Part No.        | Inductance<br>( $\mu$ H ) | Inductance<br>Tolerance | DCR<br>( $m\Omega$ ) |       | Isat<br>( A ) | Irms<br>( A ) |
|-----------------|---------------------------|-------------------------|----------------------|-------|---------------|---------------|
|                 |                           |                         | Typ.                 | Max.  | Typ.          | Typ.          |
| GSTD1770PC-1R0M | 1.00                      | M                       | 1.50                 | 1.90  | 55.50         | 40.00         |
| GSTD1770PC-1R5M | 1.50                      | M                       | 2.10                 | 2.80  | 40.00         | 35.00         |
| GSTD1770PC-2R2M | 2.20                      | M                       | 2.30                 | 3.00  | 40.00         | 32.00         |
| GSTD1770PC-3R3M | 3.30                      | M                       | 2.90                 | 3.20  | 35.00         | 30.00         |
| GSTD1770PC-4R7M | 4.70                      | M                       | 4.40                 | 5.80  | 30.00         | 25.00         |
| GSTD1770PC-6R8M | 6.80                      | M                       | 6.20                 | 8.00  | 22.50         | 19.00         |
| GSTD1770PC-8R2M | 8.20                      | M                       | 10.00                | 13.00 | 20.00         | 17.00         |
| GSTD1770PC-100M | 10.00                     | M                       | 10.00                | 13.00 | 19.00         | 16.00         |
| GSTD1770PC-150M | 15.00                     | M                       | 16.50                | 20.00 | 14.00         | 13.00         |
| GSTD1770PC-220M | 22.00                     | M                       | 20.00                | 26.00 | 12.00         | 12.00         |
| GSTD1770PC-330M | 33.00                     | M                       | 30.00                | 38.50 | 10.70         | 10.00         |
| GSTD1770PC-470M | 47.00                     | M                       | 43.00                | 53.00 | 8.70          | 8.70          |
| GSTD1770PC-560M | 56.00                     | M                       | 55.00                | 60.50 | 7.20          | 7.00          |
| GSTD1770PC-680M | 68.00                     | M                       | 58.00                | 79.00 | 6.10          | 6.00          |
| GSTD1770PC-101M | 100.00                    | M                       | 103.0                | 123.0 | 5.00          | 5.00          |

\* **Test Condition** : @100KHz , 1.0Vrms , 25°C Ambient

\* **Inductance Tolerance** : M = +/-20%

\* **Irms** : DC current (A) that will cause an approximate  $\Delta T$  of 40°C

\* **Isat** : DC current (A) that will cause L0 to drop approximately 30% Typ.

\* **Absolute maximum voltage**: DC 75V

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

#### Care note :

Care note for Use :

(1) Storage Condition :

Temperature 25 to 35 °C , Humidity 45 to 60% RH

(2) Use Temperature :

- a. Minimum Temperature : -40 °C Ambient temperature of this product.
- b. Maximum Temperature : +125 °C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 ~ +125 °C
- d. However, this is not meant as temperature grade guarantee for UL.

(3) Model :

When this product was used in a similar or as new product to the original one, sometimes it might be unable to satisfy the specifications due to difference in condition of usage.

(4) Drop :

If this product suffered mechanical stress such as drop, characteristics may become poor ( due to damage on coil / bobbin / ferrite ... etc. )

Never use such stressed product.

Care note for Safety :

(1) Provision to Abnormal Condition :

This product itself does not have any protective function in abnormal condition such as overload, short-circuit and open-circuit conditions, etc.

Therefore, it shall be confirmed from the end product that there is no risk of smoking, fire, dielectric withstand voltage insulation resistance, etc. in abnormal conditions to provide protective devices and /or protection circuit in the end product.

(2) Temperature Rise :

Temperature rise on this product depends on the installation condition on end products.

It shall be confirmed on the actual end product that temperature rise of this product is within the specified temperature class limit.

(3) Dielectric Strength :

Dielectric withstanding test with higher voltage than specific value will damage insulating material and shorten its life.

(4) Water :

This product must not be used in wet condition resulted from water, coffee or any liquid contact because insulation strength becomes very low under such condition.

(5) Potting :

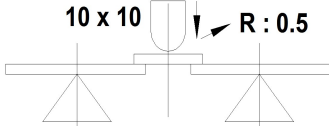
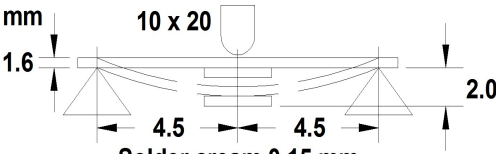
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(6) Detergent :

Please consult our company immediately once under such circumstances because product reliability confirmation etc. is needed when this product come in contact with these chemicals.

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

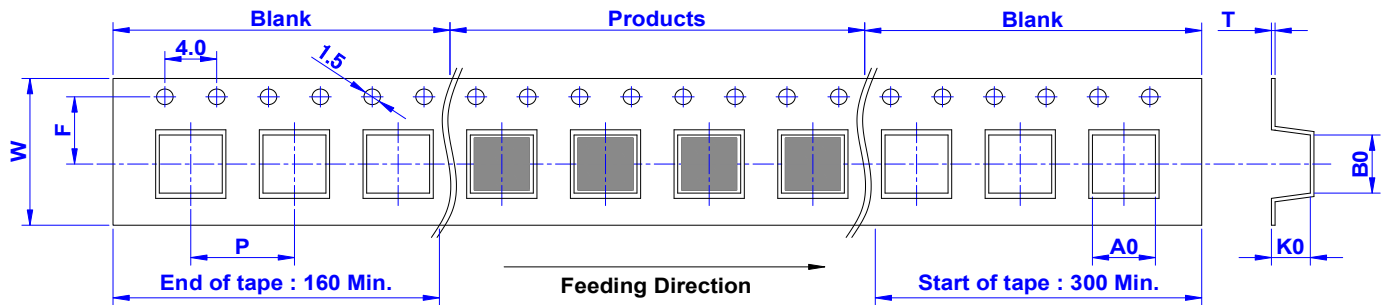
Reliability :

| SN | Test Item                            | Test Condition                                                                                                                                                                               |              |        | Specification                                   |
|----|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|-------------------------------------------------|
| 1  | Dimension                            | Actual Size ...                                                                                                                                                                              |              |        | Meet Spec                                       |
| 2  | Thermal Shock<br>(Temperature Cycle) | Temperature : -40 ~ +125 ℃ kept stabilized for 30 min. each<br>Cycle : 100 Cycles ( power off )                                                                                              |              |        | Elec. no variation<br>Appearance no deformation |
| 3  | Humidity Resistance                  | Humidity : 90% ~ 95% RH<br>Temperature : 60 ± 2 ℃ , Test Time : 96 ± 2 Hours                                                                                                                 |              |        | Elec. no variation<br>Appearance no deformation |
| 4  | HighTemperature                      | Temperature : 125 ± 2 ℃<br>Testing Time : 96 ± 2 Hours                                                                                                                                       |              |        | Elec. no variation<br>Appearance no deformation |
| 5  | Low Temperature                      | Temperature : -40 ± 2 ℃<br>Time : 96 ± 2 Hours                                                                                                                                               |              |        | Elec. no variation<br>Appearance no deformation |
| 6  | Temperature and Humidity Cycle       | Temperature                                                                                                                                                                                  | Humidity     | Time   | Elec. no variation<br>Appearance no deformation |
|    |                                      | 25 ℃                                                                                                                                                                                         | 90% ~ 95% RH | 3.0 Hr |                                                 |
|    |                                      | 55 ℃                                                                                                                                                                                         | 95% ~ 96% RH | 5.0 Hr |                                                 |
|    |                                      | 25 ℃                                                                                                                                                                                         | 90% ~ 95% RH | 3.0 Hr |                                                 |
|    |                                      | Cycle : 20 Cycles                                                                                                                                                                            |              |        |                                                 |
| 7  | Vibration                            | Frequency : 10Hz ~ 55Hz, Amplitude : 1.5 mm<br>Direction : X, Y, Z, Time : 2 Hours each                                                                                                      |              |        | Elec. no variation<br>Appearance no deformation |
| 8  | Solderability                        | Go through real SMT IR-Reflow ....<br>The profile like our suggest profile.<br>Preheat : 160 ± 10 ℃ ( 90 sec )<br>Peak : 245 ± 5 ℃<br>Peak Time : 50 Sec. / up 217 ℃                         |              |        | Elec. no variation<br>Appearance no deformation |
| 9  | Soldering Heat Resistance            | Preheat : 160 ± 10 ℃ ( 90 sec )<br>Solder : Sn / Ag / Cu ( Pb Free )<br>Solder Temp. : 260 ± 5 ℃ , Time : 3 ± 1 seconds                                                                      |              |        | Elec. no variation<br>Appearance no deformation |
| 10 | Iron Solder Heat Resistance          | Solder Temp. : 350 ± 5 ℃<br>Flux : Rosin, Time : 3 ± 1 seconds                                                                                                                               |              |        | Elec. no variation<br>Appearance no deformation |
| 11 | Bending Strength                     | <div>Unit : mm</div> <div></div> <div>Force : 1Kg / min.</div>                                            |              |        | Elec. no variation<br>Appearance no deformation |
| 12 | Flexure Strength                     | <div>Unit : mm</div> <div></div> <div>Solder cream 0.15 mm</div>                                         |              |        | Elec. no variation<br>Appearance no deformation |
| 13 | Terminal Strength                    | <div>Mount on PCB<br/>Solder Cream 0.15 mm</div> <div></div> <div>Push 10N force to X , Y direction</div> |              |        | Elec. no variation<br>Appearance no deformation |
| 14 | Load life                            | Temperature : 25 ± 3 ℃<br>Load : Allowed DC Current, Test Time : 96 ± 2 Hours                                                                                                                |              |        | Elec. no variation<br>Appearance no deformation |

|                    |             |                |                                                                                 |
|--------------------|-------------|----------------|---------------------------------------------------------------------------------|
| Product Series :   | GSTD        | Brand :        | GOTREND                                                                         |
| File Version :     | GSTD-SERIES | Prepared by :  | Yinghui Guo                                                                     |
| Established Date   | 2011.08.08  | Description :  | High Current Inductor                                                           |
| Latest Edit Date : | 2024.08.16  | Product Type : | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

Packaging Information :

Tape Dimension ( mm )

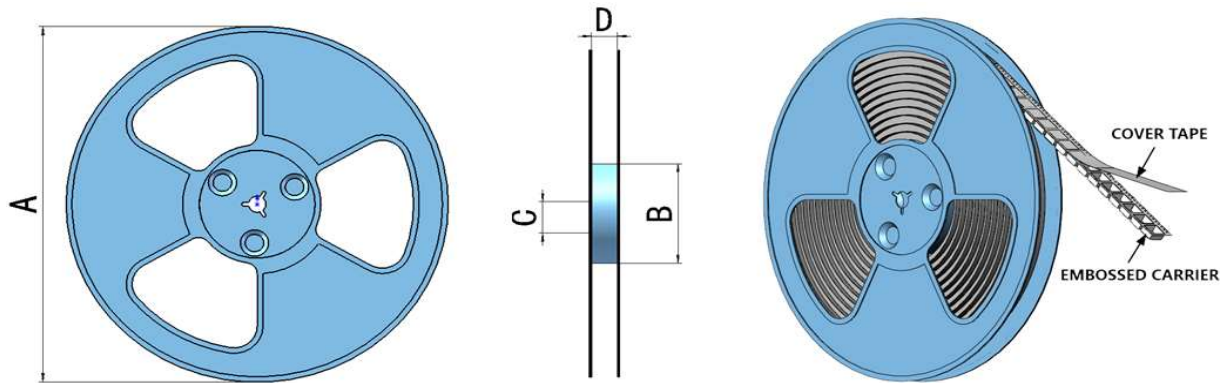


| SIZE/mm  | W     | P     | A0    | B0    | K0   | T    | F     |
|----------|-------|-------|-------|-------|------|------|-------|
| 141208PC | 8.0   | 4.0   | 1.50  | 1.70  | 0.95 | 0.22 | 3.5   |
| 160808PC | 8.0   | 4.0   | 1.05  | 1.85  | 0.95 | 0.22 | 3.5   |
| 201206PC | 8.0   | 4.0   | 1.50  | 2.34  | 1.00 | 0.25 | 3.5   |
| 201208PC | 8.0   | 4.0   | 1.50  | 2.34  | 1.22 | 0.22 | 3.5   |
| 201210PC | 8.0   | 4.0   | 1.50  | 2.34  | 1.22 | 0.22 | 3.5   |
| 201608PC | 8.0   | 4.0   | 1.95  | 2.35  | 1.20 | 0.25 | 3.5   |
| 201610PC | 8.0   | 4.0   | 1.95  | 2.35  | 1.20 | 0.25 | 3.5   |
| 252008PC | 8.0   | 4.0   | 2.40  | 2.90  | 1.00 | 0.25 | 3.5   |
| 252010PC | 8.0   | 4.0   | 2.40  | 2.90  | 1.55 | 0.25 | 3.5   |
| 252012PC | 8.0   | 4.0   | 2.40  | 2.90  | 1.55 | 0.25 | 3.5   |
| 322512PC | 8.0   | 4.0   | 2.79  | 3.50  | 1.40 | 0.23 | 3.5   |
| 322520PC | 8.0   | 4.0   | 2.85  | 3.60  | 2.25 | 0.23 | 3.5   |
| 353220PC | 12.00 | 8.00  | 3.75  | 4.00  | 2.20 | 0.30 | 7.50  |
| 4010PC   | 12.00 | 8.00  | 4.40  | 4.40  | 1.40 | 0.30 | 5.50  |
| 4020PC   | 12.00 | 8.00  | 4.30  | 5.40  | 2.20 | 0.30 | 5.50  |
| 5020PC   | 16.00 | 12.00 | 5.40  | 6.40  | 2.30 | 0.35 | 7.50  |
| 5030PC   | 16.00 | 12.00 | 5.40  | 6.40  | 3.30 | 0.35 | 7.50  |
| 6010PC   | 16.00 | 12.00 | 7.10  | 6.90  | 1.35 | 0.35 | 7.50  |
| 6015PC   | 16.00 | 12.00 | 7.10  | 6.90  | 1.80 | 0.35 | 7.50  |
| 6030PC   | 16.00 | 12.00 | 7.10  | 8.10  | 3.25 | 0.35 | 7.50  |
| 6050PC   | 16.00 | 12.00 | 6.80  | 8.20  | 5.40 | 0.40 | 7.50  |
| 8017PC   | 24.00 | 12.00 | 8.50  | 8.50  | 1.85 | 0.40 | 11.50 |
| 8040PC   | 24.00 | 12.00 | 9.50  | 8.50  | 4.20 | 0.40 | 11.50 |
| 8050PC   | 24.00 | 12.00 | 9.50  | 8.50  | 5.40 | 0.40 | 11.50 |
| 1030PC   | 24.00 | 16.00 | 10.70 | 11.80 | 3.50 | 0.40 | 11.50 |
| 1040PC   | 24.00 | 16.00 | 10.60 | 11.40 | 4.20 | 0.40 | 11.50 |
| 1050PC   | 24.00 | 16.00 | 10.80 | 11.60 | 5.40 | 0.40 | 11.50 |
| 1250PC   | 24.00 | 20.00 | 13.50 | 15.10 | 5.70 | 0.40 | 11.50 |
| 1260PC   | 24.00 | 20.00 | 13.50 | 15.10 | 6.70 | 0.40 | 11.50 |
| 1770PC   | 32.00 | 24.00 | 17.40 | 18.50 | 7.50 | 0.40 | 14.25 |

|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

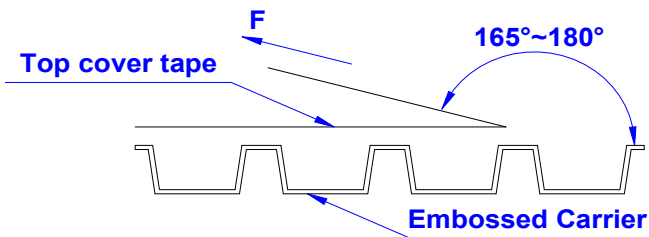
Packaging Information :

Reel Dimension ( mm )



| SIZE/mm  | Reel Size   | A   | B   | C  | D    | QTY / Reel |
|----------|-------------|-----|-----|----|------|------------|
| 141208PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 160808PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 201206PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 201208PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 201210PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 201608PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 201610PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 252008PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 252010PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 252012PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 3,000 PCS  |
| 322512PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 2,000 PCS  |
| 322520PC | 7" x 8 mm   | 178 | 60  | 13 | 8.4  | 2,000 PCS  |
| 353220PC | 13" x 12 mm | 330 | 100 | 13 | 12.5 | 3,000 PCS  |
| 4010PC   | 13" x 12 mm | 330 | 100 | 13 | 12.5 | 3,000 PCS  |
| 4020PC   | 13" x 12 mm | 330 | 100 | 13 | 12.5 | 3,000 PCS  |
| 5020PC   | 13" x 16 mm | 330 | 100 | 13 | 16.5 | 2,000 PCS  |
| 5030PC   | 13" x 16 mm | 330 | 100 | 13 | 16.5 | 1,500 PCS  |
| 6010PC   | 13" x 16 mm | 330 | 100 | 13 | 16.5 | 2,000 PCS  |
| 6015PC   | 13" x 16 mm | 330 | 100 | 13 | 16.5 | 2,000 PCS  |
| 6030PC   | 13" x 16 mm | 330 | 100 | 13 | 16.5 | 1,500 PCS  |
| 6050PC   | 13" x 16 mm | 330 | 100 | 13 | 16.5 | 1,000 PCS  |
| 8017PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 2,000 PCS  |
| 8040PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 1,000 PCS  |
| 8050PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 1,000 PCS  |
| 1030PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 1,000 PCS  |
| 1040PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 1,000 PCS  |
| 1050PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 800 PCS    |
| 1250PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 400 PCS    |
| 1260PC   | 13" x 24 mm | 330 | 100 | 13 | 24.5 | 400 PCS    |
| 1770PC   | 13" x 32 mm | 330 | 100 | 13 | 32.4 | 300 PCS    |

Tearing Off Force



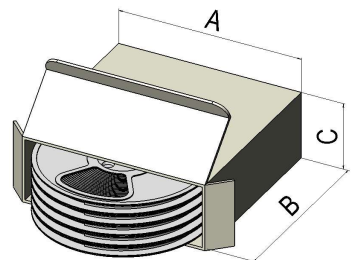
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions ( referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard ).

| Room Temp.<br>( °C ) | Room Humidity<br>( % ) | Room Atm.<br>( hPa ) | Tearing Speed<br>( mm / min ) |
|----------------------|------------------------|----------------------|-------------------------------|
| 5 ~ 35               | 45 ~ 85                | 860 ~ 1060           | 300                           |

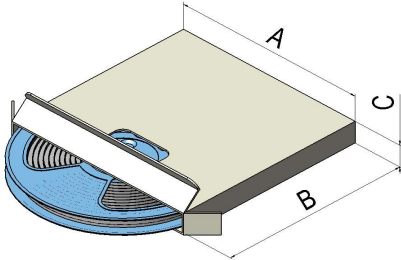
|                           |                    |                       |                                                                                 |
|---------------------------|--------------------|-----------------------|---------------------------------------------------------------------------------|
| <b>Product Series :</b>   | <b>GSTD</b>        | <b>Brand :</b>        | <b>GOTREND</b>                                                                  |
| <b>File Version :</b>     | <b>GSTD-SERIES</b> | <b>Prepared by :</b>  | <b>Yinghui Guo</b>                                                              |
| <b>Established Date</b>   | <b>2011.08.08</b>  | <b>Description :</b>  | <b>High Current Inductor</b>                                                    |
| <b>Latest Edit Date :</b> | <b>2024.08.16</b>  | <b>Product Type :</b> | <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize |

Packaging Information :

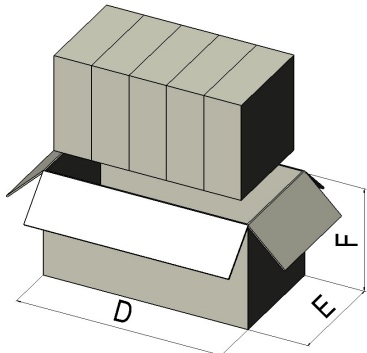
Box Package



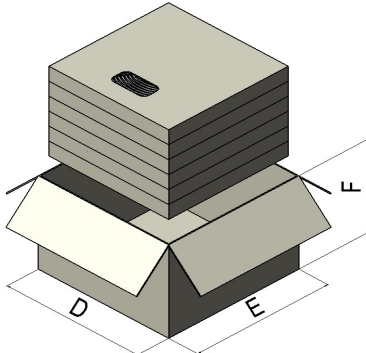
7" Small Box



13' Small Box



7" Large Box



13"Large Box

| SIZE/mm  | Reels size | A   | B   | C  | Large Box | D   | E   | F   | Reels in Small Box (QTY) | Small Box in Large Box(QTY) |
|----------|------------|-----|-----|----|-----------|-----|-----|-----|--------------------------|-----------------------------|
| 141208PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 160808PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 201206PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 201208PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 201210PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 201608PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 201610PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 252008PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 252010PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 252012PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(15,000)                | 5(75,000)                   |
| 322512PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(10,000)                | 5(50,000)                   |
| 322520PC | 7"         | 190 | 195 | 75 | 7"        | 408 | 210 | 220 | 5(10,000)                | 5(50,000)                   |
| 353220PC | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 2(6,000)                 | 5(30,000)                   |
| 4010PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 2(6,000)                 | 5(30,000)                   |
| 4020PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 2(6,000)                 | 5(30,000)                   |
| 5020PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(2,000)                 | 7(14,000)                   |
| 5030PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(1,500)                 | 7(10,500)                   |
| 6010PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(2,000)                 | 7(14,000)                   |
| 6015PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(2,000)                 | 7(14,000)                   |
| 6030PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(1,500)                 | 7(10,500)                   |
| 6050PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(1,000)                 | 7(7,000)                    |
| 8017PC   | 13"        | 335 | 335 | 23 | 13"       | 350 | 350 | 220 | 1(2,000)                 | 5(10,000)                   |
| 8040PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(1,000)                 | 5(5,000)                    |
| 8050PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(1,000)                 | 5(5,000)                    |
| 1030PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(1,000)                 | 5(5,000)                    |
| 1040PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(1,000)                 | 5(5,000)                    |
| 1050PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(800)                   | 5(4,000)                    |
| 1250PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(400)                   | 5(2,000)                    |
| 1260PC   | 13"        | 335 | 335 | 40 | 13"       | 350 | 350 | 220 | 1(400)                   | 5(2,000)                    |
| 1770PC   | 13"        | 340 | 340 | 54 | 13"       | 350 | 350 | 245 | 1(300)                   | 4(1,200)                    |