Product Series :	GSTD	Brand :	GOTREND
File Version :	GSTD-PC-SERIES-AG	Editor :	Yinghui Guo
Established Date	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2024.07.22	Product Type :	☑ Standard ☐ Customize

### **Version Information:**

SN	Date	Version Code	Modify Description	Editior	Check
01	2024.07.22	V1R0	New version update release	Yinghui Guo	Check 张文代
			·		



Product Series :	GSTD	Brand :	GOTREND
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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.
- ♦ This catalogue only applies to products purchased through GOTREND Technology or its official agencies. This catalogue does not apply to products that are purchased through other third parties.
- Please read Attention and CAUTION note (for storage, operating, rating, soldering, mounting and handling) in this catalog to ensure product proper usage.
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- ♦ Information and data provided in the brochure can and do vary in different applications, and actual performance may vary over time.
- "Delivery Specification" illustrating precautions for the specifications and safety of each product listed in this catalog is available and we strongly recommend to provide these delivery specifications with customers that use these products.
- ◆ For exporting of product in this catalog, please take note it may be a restricted item according to the "Foreign Exchange and Foreign Trade Control Law". In such cases, it is necessary to acquire export permission in accordance to this law.
- ◆ Any reproduction or extraction of the contents in this catalog is prohibited without prior permission from GOTREND Technology.
- 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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#### 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 )

**Basic Information:** 

## Part No. Example:

PN	:	GSTD	4020	Р	С	-	1R0		-	AG	Made in	Taiwan / China
											Pin Foot	SMD
ID	:	1	2	3	4		5	6		7	Shielding	Yes
											J-STD-020	MSL Level 1
1	:	GOTREN	ID Series	: GSTI	D						RoHS	Compliant
2	:	Type Size	e Code :	4020 =	4.4 x 4.2	x 1.8 mr	n				REACH	Compliant
3	:	P = Pb fr	ee < 100	0 ppm							Halogen	Free
4		[C1:Ma	terial Cod	de							Automotive	AFC Q200

5 : [L] Value : Inductance 1R0 = 1.0 uH

6 : [L] Tolerance : M = +/-20%

7 : [AG]: Reliability comply with AEC-Q200 standard type.

## Operating & Storage Condition:

\* Operating Temp  $-55 \sim +150 \,^{\circ}\mathbb{C}$  (Including self - temperature rise ) \* Storage Temp  $1. -10 \sim +45 \,^{\circ}\mathbb{C}$ ,  $50 \sim 60\%$  RH (Product with taping )

2. -55 ~ +150  $^{\circ}$ C ( On board )

\* Storage Life Time 6 Month ( Less than 40  $^{\circ}$ 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 solderablility: 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, HP42841A - L, Q, DCR, IDC

HP8753D Network analyzer - SRF

\* Standard Atmosphere Conditions:

Ambient Temperature 20 ± 15 °C

Humidity RH 65  $\pm$  20%

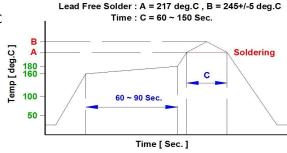
\* If there may be any doubt on the test result,

Measurement shall be made within the following limits:

Ambient Temperature 25 ± 5 °C

Humidity RH 75 ± 10%

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





Notice : Iron Soldering , Solder < 30 Watt , Direct touch the terminal x 3 Sec. Max. @ 350 deg.C



**Product Series: GSTD** Brand: GOTREND Editor: File Version: GSTD-PC-SERIES-AG Yinghui Guo **Established Date:** 2012.09.26 **Description: High Current Inductor Product Type: Latest Edit Date:** 2024.07.22 ☑ Standard ☐ Customize

SME	D Power Inductor	- GSTM	Series 7	Гуре
			14/	ш

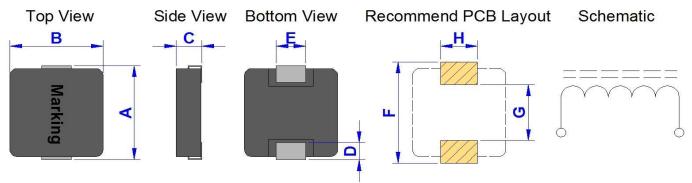
			~ *						
Part Name	L ( mm ) Typ.	W ( mm ) Typ.	H ( mm ) Typ.	(	(uH)	DCR ( m Ohm ) Max.	Isat ( A ) Typ.	Irms ( A ) Typ.	Page
4020PC	4.4	4.2	1.8	0.47	10.0	14.0-282.0	2.3-10.0	1.8-9.0	5
5030PC	5.6	5.2	2.8	1.00	10.0	14.0-125.0	3.5-10.0	2.8-8.5	6
6030PC	7.0	6.6	2.8	0.33	22.0	3.5-170.0	3.1-25.0	2.5-21.0	7
6050PC	7.0	6.6	4.8	1.00	22.0	6.5-130.0	3.5-16.0	2.8-13.0	8
1040PC	11.0	10.0	3.8	0.22	10.00	1.0-30.0	8.5-60.0	7.5-35.0	9
	4020PC 5030PC 6030PC 6050PC	Typ.  4020PC 4.4  5030PC 5.6  6030PC 7.0  6050PC 7.0	Part Name         ( mm ) Typ.         ( mm ) Typ.           4020PC         4.4         4.2           5030PC         5.6         5.2           6030PC         7.0         6.6           6050PC         7.0         6.6	Part Name         (mm) Typ.         (mm) Typ.         (mm) Typ.           4020PC         4.4         4.2         1.8           5030PC         5.6         5.2         2.8           6030PC         7.0         6.6         2.8           6050PC         7.0         6.6         4.8	Part Name         (mm) Typ.         (mm) Typ.         (mm) Typ.         M:           4020PC         4.4         4.2         1.8         0.47           5030PC         5.6         5.2         2.8         1.00           6030PC         7.0         6.6         2.8         0.33           6050PC         7.0         6.6         4.8         1.00	Part Name       (mm) Typ.       (mm) Typ.       (mm) Typ.       (mm) Typ.       (mm) M=+/-20%         4020PC       4.4       4.2       1.8       0.47       10.0         5030PC       5.6       5.2       2.8       1.00       10.0         6030PC       7.0       6.6       2.8       0.33       22.0         6050PC       7.0       6.6       4.8       1.00       22.0	Part Name         (mm) Typ.         (mm) Typ.         (mm) Typ.         (mm) M=+/-20%         (mohm) Max.           4020PC         4.4         4.2         1.8         0.47         10.0         14.0-282.0           5030PC         5.6         5.2         2.8         1.00         10.0         14.0-125.0           6030PC         7.0         6.6         2.8         0.33         22.0         3.5-170.0           6050PC         7.0         6.6         4.8         1.00         22.0         6.5-130.0	Part Name         (mm) Typ.         (mm) Typ.         (mm) Typ.         (mm) Typ.         (mm) M=+/-20%         (mohm) Max.         (A) Typ.           4020PC         4.4         4.2         1.8         0.47         10.0         14.0-282.0         2.3-10.0           5030PC         5.6         5.2         2.8         1.00         10.0         14.0-125.0         3.5-10.0           6030PC         7.0         6.6         2.8         0.33         22.0         3.5-170.0         3.1-25.0           6050PC         7.0         6.6         4.8         1.00         22.0         6.5-130.0         3.5-16.0	Part Name         (mm) Typ.         (mm) Typ.         (mm) Typ.         (mm) Typ.         (mm) Typ.         (mm) M=+/-20%         (mohm) Max.         (A) Typ.         (A) Typ.           4020PC         4.4         4.2         1.8         0.47         10.0         14.0-282.0         2.3-10.0         1.8-9.0           5030PC         5.6         5.2         2.8         1.00         10.0         14.0-125.0         3.5-10.0         2.8-8.5           6030PC         7.0         6.6         2.8         0.33         22.0         3.5-170.0         3.1-25.0         2.5-21.0           6050PC         7.0         6.6         4.8         1.00         22.0         6.5-130.0         3.5-16.0         2.8-13.0



Product Series :	GSTD	Brand :	GOTREND
File Version :	GSTD-PC-SERIES-AG	Editor :	Yinghui Guo
Established Date	2012.09.26	Description :	High Current Inductor
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# **GSTD4020PC-SERIES-AG**

# Dimension [ mm ] :



# Marking: Inductance

A (+/-0.4)	B (+/-0.2)	C (+/-0.2)	D (+/-0.2)	E (+/-0.3)	F (Ref.)	G (Ref.)	H (Ref.)
4.40	4.20	1.80	0.80	2.00	4.96	2.44	2.50

Part No.	Inductance ( uH )	Inductance Tolerance	DCR ( m Ohm ) Max.	Isat ( Amp ) Typ.	Irms ( Amp ) Typ.
GSTD4020PC-R47M-AG	0.47	M	14.00	10.00	9.00
GSTD4020PC-1R0M-AG	1.00	M	27.00	7.50	6.00
GSTD4020PC-3R3M-AG	3.30	M	87.00	4.00	3.40
GSTD4020PC-4R7M-AG	4.70	M	105.00	3.00	3.20
GSTD4020PC-100M-AG	10.00	M	282.00	2.30	1.80



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

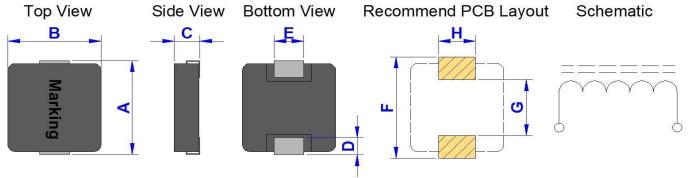
<sup>\*</sup> Isat: Saturated Current measured at the point of L drop approximately 30%

<sup>\*</sup> Absolute maximum voltage:DC 75V

Product Series :	GSTD	Brand :	GOTREND
File Version :	GSTD-PC-SERIES-AG	Editor :	Yinghui Guo
Established Date	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2024.07.22	Product Type :	☑ Standard ☐ Customize

# **GSTD5030PC-SERIES-AG**

# Dimension [ mm ] :



# Marking: Inductance

A (+/-0.4)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F (Ref.)	G (Ref.)	H (Ref.)
5.60	5.20	2.80	1.30	2.30	6.00	2.20	2.80

Part No.	Inductance (uH)	Inductance Tolerance	DCR ( m Ohm ) Max.	Isat ( Amp ) Typ.	Irms ( Amp ) Typ.
GSTD5030PC-1R0M-AG	1.00	M	14.00	10.00	8.50
GSTD5030PC-3R3M-AG	3.30	M	38.00	6.00	5.50
GSTD5030PC-4R7M-AG	4.70	M	60.00	5.00	4.00
GSTD5030PC-6R8M-AG	6.80	M	86.00	4.50	3.50
GSTD5030PC-100M-AG	10.00	M	125.00	3.50	2.80



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

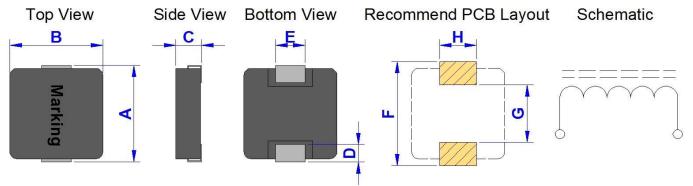
<sup>\*</sup> Isat : Saturated Current measured at the point of L drop approximately 30%

<sup>\*</sup> Absolute maximum voltage:DC 75V

Product Series :	GSTD	Brand :	GOTREND
File Version :	GSTD-PC-SERIES-AG	Editor :	Yinghui Guo
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Latest Edit Date :	2024.07.22	Product Type :	☑ Standard ☐ Customize

# **GSTD6030PC-SERIES-AG**

# Dimension [ mm ] :



# Marking: Inductance

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F (Ref.)	G (Ref.)	H (Ref.)
7.00	6.60	2.80	1.60	3.00	8.40	3.70	3.50

Part No.	Inductance ( uH )	Inductance Tolerance	DCR ( m Ohm ) Max.	Isat ( Amp ) Typ.	Irms ( Amp ) Typ.
GSTD6030PC-R33M-AG	0.33	M	3.50	25.00	21.00
GSTD6030PC-1R0M-AG	1.00	M	7.50	18.00	12.00
GSTD6030PC-4R7M-AG	4.70	M	33.00	9.00	6.00
GSTD6030PC-100M-AG	10.00	M	68.00	5.50	4.00
GSTD6030PC-220M-AG	22.00	M	170.00	3.10	2.50



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

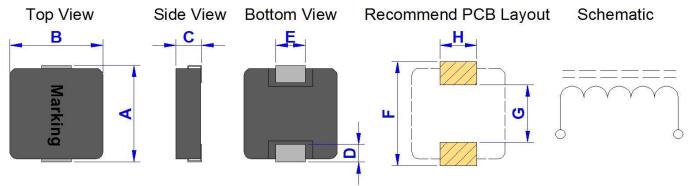
<sup>\*</sup> Isat : Saturated Current measured at the point of L drop approximately 30%

<sup>\*</sup> Absolute maximum voltage:DC 75V

Product Series :	GSTD	Brand :	GOTREND
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# **GSTD6050PC-SERIES-AG**

# Dimension [ mm ] :



# Marking: Inductance

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F (Ref.)	G (Ref.)	H (Ref.)
7.00	6.60	4.80	1.60	3.00	8.40	3.70	3.50

Part No.	Inductance ( uH )	Inductance Tolerance	DCR ( m Ohm ) Max.	Isat ( Amp ) Typ.	Irms ( Amp ) Typ.
GSTD6050PC-1R0M-AG	1.00	M	6.50	16.00	13.00
GSTD6050PC-3R3M-AG	3.30	M	22.00	10.00	7.50
GSTD6050PC-6R8M-AG	6.80	M	41.00	7.00	5.80
GSTD6050PC-100M-AG	10.00	M	53.00	6.00	4.80
GSTD6050PC-220M-AG	22.00	M	130.00	3.50	2.80



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

<sup>\*</sup> Irms : Rated Current Loading when temperature rise approximately  $40\,^{\circ}\mathrm{C}$ 

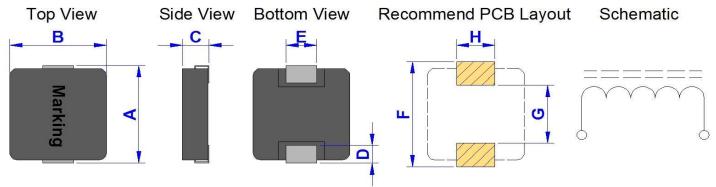
<sup>\*</sup> Isat: Saturated Current measured at the point of L drop approximately 30%

<sup>\*</sup> Absolute maximum voltage:DC 75V

Product Series :	GSTD	Brand :	GOTREND
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# **GSTD1040PC-SERIES-AG**

# Dimension [ mm ] :



# Marking: Inductance

A (+/-0.5)	B (+/-0.3)	C (+/-0.2)	D (+/-0.5)	E (+/-0.5)	F (Ref.)	G (Ref.)	H (Ref.)
11.00	10.00	3.80	2.50	3.00	13.00	6.00	4.00

Part No.	Inductance ( uH )	Inductance Tolerance	DCR ( m Ohm ) Max.	Isat ( Amp ) Typ.	Irms ( Amp ) Typ.
GSTD1040PC-R22M-AG	0.22	M	1.00	60.00	35.00
GSTD1040PC-1R0M-AG	1.00	M	3.00	28.00	20.00
GSTD1040PC-3R3M-AG	3.30	M	11.80	16.00	11.00
GSTD1040PC-4R7M-AG	4.70	M	16.50	13.00	9.30
GSTD1040PC-100M-AG	10.00	M	30.00	8.50	7.50



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

<sup>\*</sup> Irms : Rated Current Loading when temperature rise approximately  $40\,^{\circ}\!\mathrm{C}$ 

<sup>\*</sup> Isat : Saturated Current measured at the point of L drop approximately 30%

<sup>\*</sup> Absolute maximum voltage:DC 75V

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#### 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 : -55  $^{\circ}$ C Ambient temperature of this product.
- b. Maximum Temperature : +150 ℃ The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -55  $\sim$  +150  $^{\circ}\mathrm{C}$
- 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.



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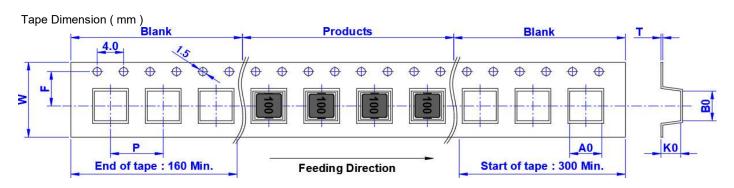
# Reliability for automotive products :

No	Item	Test Conditions	Specification
1	External Visual	Inspect device construction and workmanship.	There is no change for appearance ( electrode
	MIL-STD-883	Electrical test not required.	did not fall off , loose , no breakage , ferrite core
	Method 2009		did not break , damage )
2	<b>Physical Dimension</b>	Verify physical dimensions to the device	For Spec.
	JESD22	specification.	
	Method JB-100		
3	Thermal Shock	Temperature : -55±2 °C ~ +150±2 °C	There is no change for appearance ( electrode
	MIL-STD-202	Max transfer time : 20 s.	did not fall off , loose , no breakage , ferrite core
	Method 107	Dwell time : 15 minutes. Air - Air	did not break , damage )
			Inductor value / resistance change rate ±10%.
4	<b>Humidity Resistance</b>	Humidity: 85% RH	There is no change for appearance ( electrode
	MIL-STD-202	Temperature : 85 °C	did not fall off , loose , no breakage , ferrite core
	Method 103	Test time : 1000 Hours	did not break , damage )
			Inductor value / resistance change rate ±10%.
5	High Temperature	Temperature : 150±2 ℃	There is no change for appearance ( electrode
	MIL-STD-202	Test time : 1000 Hours	did not fall off , loose , no breakage , ferrite core
	Method 108		did not break , damage )
			Inductor value / resistance change rate ±10%.
6	Temperature and	Temperature : -55 $^{\circ}$ ~ +150 $^{\circ}$	There is no change for appearance ( electrode
	<b>Humidity Cycle</b>	Cycles: 1000	did not fall off , loose , no breakage , ferrite core
	JESD22		did not break , damage )
	Method JA-104		Inductor value / resistance change rate ±10%.
7	Operational Life	Temperature : 150 ℃	No short circuit , open circuit.
	MIL-PRF-27	Load : Allowed DC current	
		Test time : 1000 Hours	
8	Vibration	5 g's for 20 minutes , 12 cycles each of 3	No bad phenomenon.
	MIL-STD-202	orientations.	
	Method 204	Test from 10Hz ~ 2000Hz	
9	Mechanical Shock	Figure 1 of Method 213 SMD : Condition C.	No bad phenomenon.
	MIL-STD-202		
	Method 213		
10	Resistance to	Condition B No pre-heat of samples.	Tin solder have to cover over 90% area.
	Soldering Head	Temperature 250 up / 5 s.	
	MIL-STD-202	Temperature 183 up / 90 ~ 120 s.	
	Method 210		
11	Solderability	a. Method B , 4 Hours @ 155 °C dry heat	No change and transform form the appearance.
	J-STD-002	@ 235 °C	
		b. Method B @ 215 °C category 3	
		c. Method D @ 260 °C category 3	



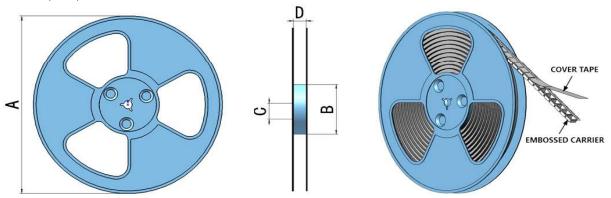
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Latest Edit Date :	2024.07.22	Product Type :	☑ Standard ☐ Customize

# **Packaging Information:**



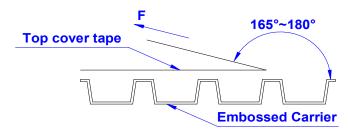
SIZE/mm	W	Р	A0	В0	K0	Т	F
4020	12.0	8.0	4.30	5.40	2.20	0.30	5.50
5030	16.0	12.0	5.40	6.40	3.30	0.35	7.50
6030	16.0	12.0	7.10	8.10	3.25	0.35	7.50
6050	16.0	12.0	6.80	8.20	5.40	0.40	7.50
1040	24.0	16.0	10.60	11.40	4.20	0.35	11.50

# Reel Dimension ( mm )



SIZE/mm	Reel Size	А	В	С	D	QTY / Reel
4020	13" × 12 mm	330	100	13.0	12.5	3,000 PCS
5030	13" × 16 mm	330	100	13.0	16.5	1,500 PCS
6030	13" × 16 mm	330	100	13.0	16.5	1,500 PCS
6050	13" × 16 mm	330	100	13.0	16.5	1,000 PCS
1040	13" × 24 mm	330	100	13.0	24.5	1,000 PCS

# Tearing Off Force



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

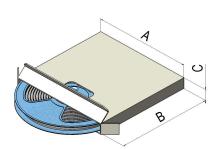
Room Temp. (°C)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed ( mm / min )
5 ~ 35	45 ~ 85	860 ~ 1060	300



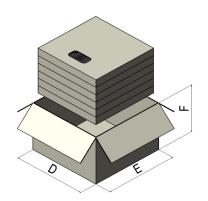
Product Series :	GSTD	Brand :	GOTREND
File Version :	GSTD-PC-SERIES-AG	Editor :	Yinghui Guo
Established Date	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2024.07.22	Product Type :	☑ Standard ☐ Customize

# Packaging Information :

Box Package



13" Small Box



13"Large Box

SIZE/mm	Rells size	Α	В	С	Large Box	D	Е	F	Reels in Small Box (QTY)	Small Box in Large Box(QTY)
4020	13"	335	335	40	13"	350	350	220	2(6,000)	5(30,000)
5030	13"	335	335	23	13"	350	350	220	1(1,500)	7(10,500)
6030	13"	335	335	23	13"	350	350	220	1(1,500)	7(10,500)
6050	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
1040	13"	335	335	40	13"	350	350	220	1(1,000)	5(5,000)

