

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Version Information :

[illegible]

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize



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.
- ◆ GOTREND Technology is not responsible for issues that occur related to the intellectual property rights or other rights of our company or a third party when you use a product listed in this catalog. GOTREND Technology do not grant license of these rights.
- ◆ 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 °C ± 5 °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.



Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Features & Application :

- * Good in EMI effect and various custom design
- * Low DCR and high current ratings.
- * Minimize electromagnetic interference
- * To help you go pass the CE/FCC standard.
- * MainBoard / NB / IPC / Server / VRM moudle...etc.



(Picture for reference only)

Part No. Example :

PN	:	GSTF	2814	P	[]	-	220	K
ID	:	1	2	3	4	---	5	6
1	:	GSTF : GOTREND Series code						
2	:	Core Size Code [2814] = 28.0 mm * 28.0 mm * 14.3 mm						
3	:	Pb free Code : P = Pb free < 1000 ppm						
4	:	Serial Number : [A] [H] [S] = Manufacturer Serial Number						
5	:	Inductance Value : [220] = 22.0 μ H						
6	:	Tolerance : [K] = $\pm 10\%$ [M] = $\pm 20\%$						

Basic Information :

Made in	China
Pin Foot	SMD
Shielding	NO
J-STD-020	MSL Level 1
RoHS	Compliant
REACH	Compliant
Halogen	Free

Operating & Storage Condition :

- * Operating Temp -40 ~ +125 °C (Including self - temperature rise)
- * Storage Temp -10 ~ +45 °C , 50 ~ 60% RH (Product with taping) ; -40 ~ +85 °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)
- * Avoid Vibrations or shocks which exceed the specified condition
- * Dew condense
- * Avoid 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.

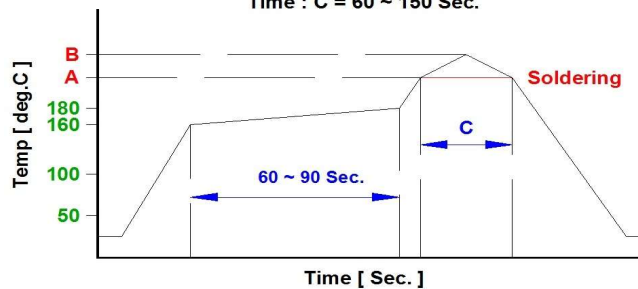


Test Condition :

- * Equipment WK3260B , WK3265B - L , Q , DCR , IDC
IM 3536 Network analyzer - SRF
TH9301A HI-POT TEST - AC , DC
TH2511 - DCR
- * Standard Atmosphere Conditions:
Ambient Temperature 20 $\pm$ 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 $\pm$ 5 °C
Humidity RH 75 $\pm$ 10%

Recommend IR Reflow Curve : GTX-IR-FILE001

Lead Free Solder : A = 217 deg.C , B = 245 $\pm$ 5 deg.C
Time : C = 60 ~ 150 Sec.



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



Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date :	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

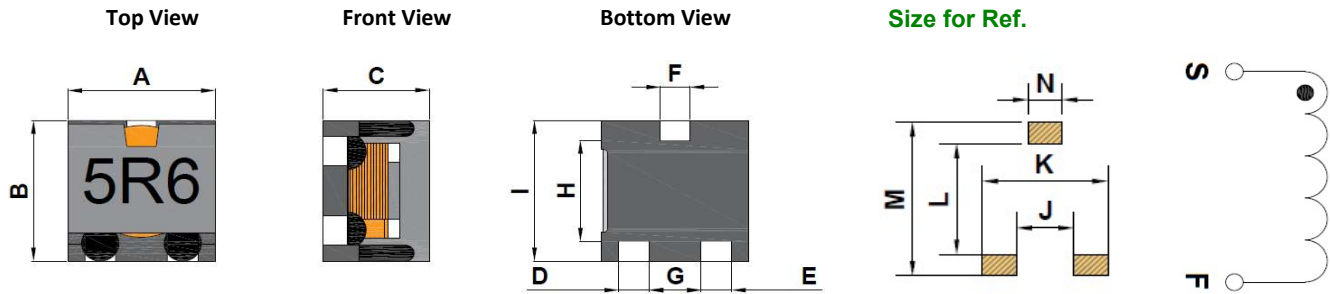
High Current Inductor- GSTF Series Type								
Part Name	A (mm)	B (mm)	C (mm)	Inductance Range (uH) (K= ±10%/ M= ±20%)	DCR (mΩ)	Isat (A)	Irms (A)	Page
GSTF125P	13..1	13.10	5.80	5.6	11.40	8.80	8.80	P5
GSTF1250PB	12.70	12.60	5.45	10	10.90	7.50	7.20	P6
GSTF1290P	12.50	12.50	9.00	10.0	15.00	13.20	13.20	P7
GSTF1362P	13.10	12.70	6.20	4.7	7.50	15.00	13.00	P8
GSTF1480P	14.10	13.10	8.00	4.7	5.40	24.70	20.00	P9
GSTF2013P	20.00	9.78	12.90	4.7	1.82	18.00	30.00	P10
GSTF2013PH	20.00	20.00	13.45	2.0	1.82	37.00	28.00	P11
GSTF2214PA	21.80	22.50	14.50	3.1	2.30	45.00	26.00	P12
GSTF2814PH	28.00	28.00	14.30	2.2 ~ 33.0	2.01	5.90 ~ >100	30.00	P13
GSTF2815PA	27.90	27.90	19.50	4.7	1.80	50.10	30.00	P14
GSTF2818PL	28.00	28.00	18.00	3.3 ~ 33.0	2.86	9.60 ~ 93.60	28.00	P15
GSTF2819PA	28.00	27.90	18.50	10.0	2.64	37.00	30.00	P16

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :
The Turns & Shapes are just for reference
Real Specs are follow sample approve.

GSTF125P-SERIES

PCB Layout [mm] : Schematic :
Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)							
A (Max.)	B (Max.)	C (Max.)	D (±0.3)	E (±0.3)	F (±0.3)	G (±0.3)	H (Typ.)
13.1	13.1	5.8	2.6	2.6	2.5	4.4	9.0
I (Max.)	J (Ref.)	K (Ref.)	L (Ref.)	M (Ref.)	N (Ref.)		
13.0	4.0	10.0	8.2	13.5	3.0		

Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF125P-5R6M	5.6	11.4 Max.	8.8 Typ.	8.8Typ.

TEST CONDITION :

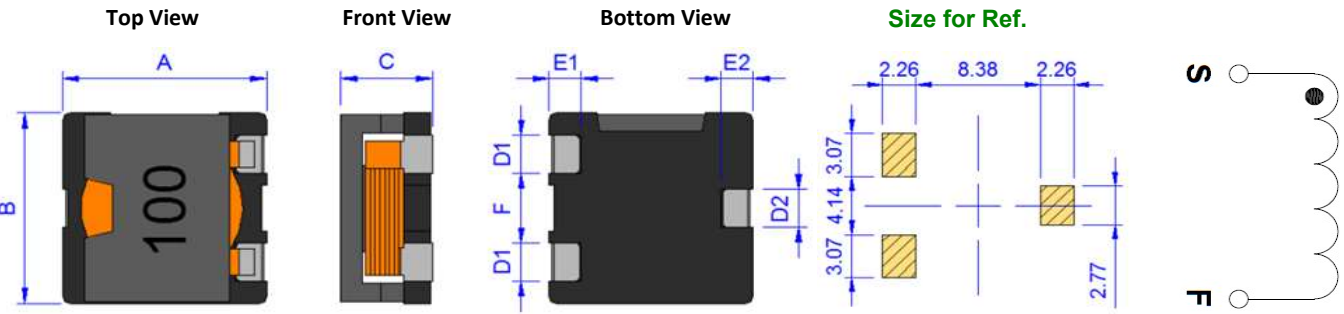
- * Inductance Test Condition @100 kHz , 1.0 Vrms , 25°C Ambient
- * Inductance Tolerance : M = ± 20%
- * **Isat** : DC current(A) that will cause Lo to drop approximate 30%.
- * **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.
- * **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :
The Turns & Shapes are just for reference
Real Specs are follow sample approve.

GSTF1254PB-SERIES

PCB Layout [mm] : Schematic :
Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)							
A (±0.3)	B (±0.3)	C (±0.35)	D1 (±0.2)	D2 (±0.2)	E1 (±0.2)	E2 (±0.2)	F (±0.2)
12.70	12.60	5.45	2.80	2.40	1.80	1.60	4.40

Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF1254PB-100M	10.0	10.9 Max.	7.5 Typ.	7.2Typ.

TEST CONDITION :

- * Inductance Test Condition @100 kHz , 0.1 Vrms , 25°C Ambient
- * Inductance Tolerance : M = ± 20%
- * **Isat** : DC current(A) that will cause Lo to drop approximate 30%.
- * **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.
- * **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.
Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

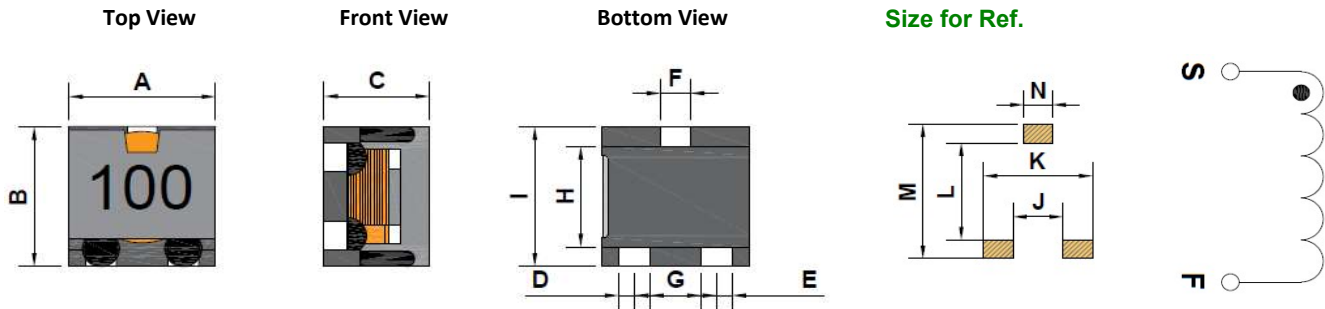
Dimension [mm] :

GSTF1290P-SERIES

The Turns & Shapes are just for reference

Real Specs are follow sample approve.

PCB Layout [mm] : Schematic :



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)							
A (±0.5)	B (±0.5)	C (Max.)	D (±0.3)	E (±0.3)	F (±0.3)	G (±0.3)	H (Typ.)
12.5	12.5	9.0	2.6	2.6	2.5	7.0	9.0
I (Max.)	J (Ref.)	K (Ref.)	L (Ref.)	M (Ref.)	N (Ref.)		
13.0	4.0	10.0	8.2	13.5	3.0		

Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF1290P-100M	10.0	15.0 Max.	13.2 Typ.	13.2Typ.

TEST CONDITION :

* Inductance Test Condition @100 kHz , 0.25 Vrms , 25°C Ambient

* Inductance Tolerance : M = ± 20%

* **Isat** : DC current(A) that will cause Lo to drop approximate 30%.

* **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.

* **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.

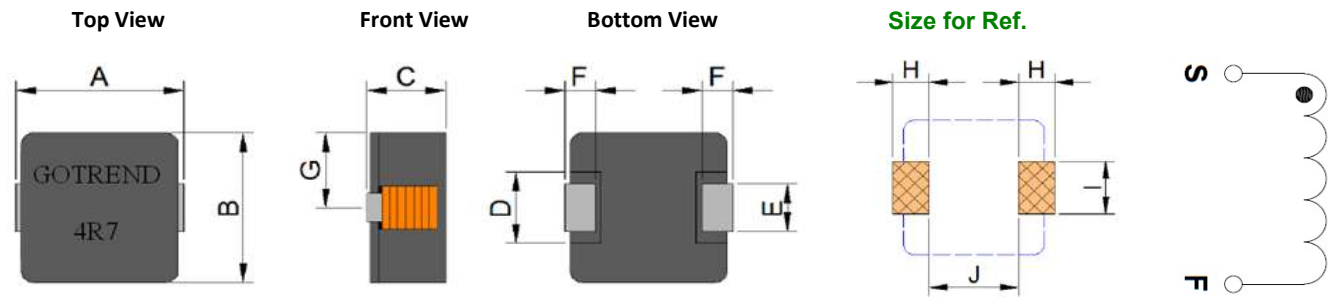
Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :
The Turns & Shapes are just for reference
Real Specs are follow sample approve.

GSTF1362P-SERIES

PCB Layout [mm] : **Schematic :**
Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (±1.0)	C (Max.)	D (±0.5)	E (±0.5)
13.10	12.70	6.20	4.40	2.50
F (±1.0)	G (±0.5)	H (Ref.)	I (Ref.)	J (Ref.)
2.50	6.35	4.00	5.00	5.00

Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF1362P-4R7M	4.7	7.5 ±10%	15.0 Typ.	13.0 Typ.

TEST CONDITION :

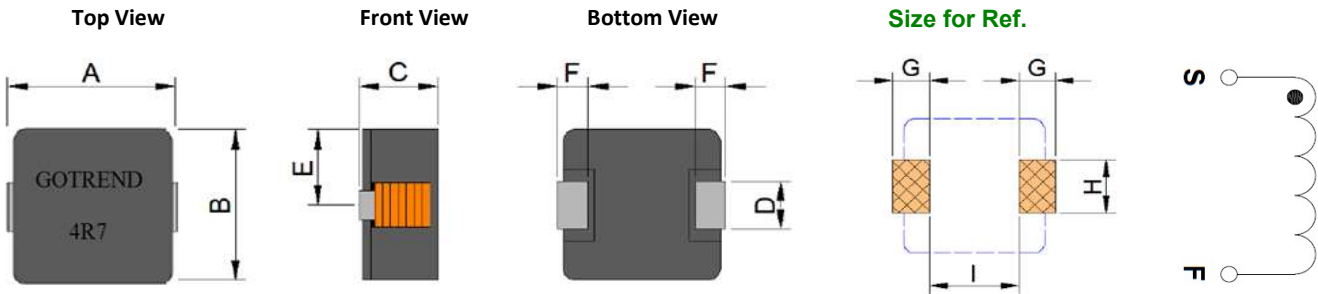
- * Inductance Test Condition @100 kHz , 0.1 Vrms , 25°C Ambient
- * Inductance Tolerance : M = ± 20%
- * **Isat** : DC current(A) that will cause Lo to drop approximate 30%.
- * **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.
- * **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :
The Turns & Shapes are just for reference
Real Specs are follow sample approve.

GSTF1480P-SERIES

PCB Layout [mm] : Schematic :
Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (Max.)	C (Max.)	D (±0.4)	E (Ref.)
14.1	13.1	8.0	2.4	6.8
F (Ref.)	G (Ref.)	H (Ref.)	I (Ref.)	
3.2	4.7	5.0	4.6	

Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF1480P-4R7M	4.7	5.4 Typ.	24.7 Typ.	20.2 Typ.

TEST CONDITION :

- * Inductance Test Condition @100 kHz , 0.1 Vrms , 25°C Ambient
 - * Inductance Tolerance : M = ± 20%
 - * **Isat** : DC current(A) that will cause Lo to drop approximate 30%.
 - * **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.
 - * **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.
- Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :

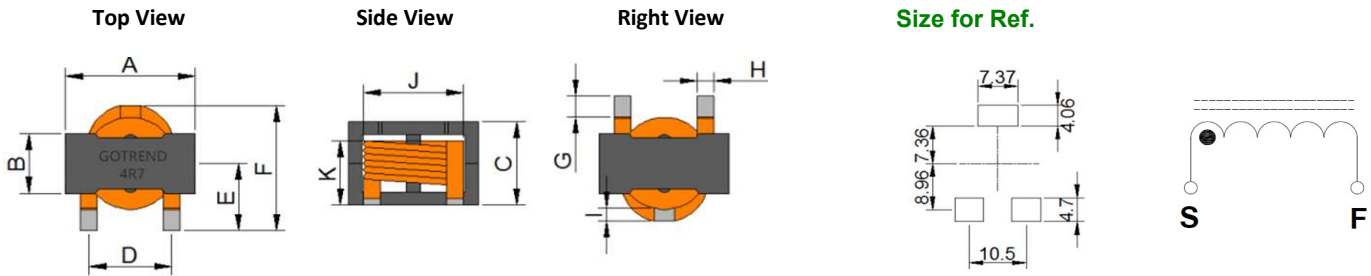
The Turns & Shapes are just for reference

Real Specs are follow sample approve.

GSTF2013P-SERIES

PCB Layout [mm] : Schematic :

Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (Max.)	C (Max.)	D (Ref.)	E (±0.5)
20.00	9.78	12.90	10.50	10.50
F (Max.)	G (±0.4)	H (Ref.)	I (Ref.)	J (Ref.)
20.00	3.18	2.50	2.50	13.40
K (Ref.)				
10.00				

Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF2013P-4R7M	4.7	1.82	18.0 Typ.	30.0 Typ.

TEST CONDITION :

* Inductance Test Condition @100 kHz , 0.1 Vrms , 25°C Ambient

* Inductance Tolerance : M = ±20%

* **Isat** : DC current(A) that will cause Lo to drop approximate 30%.

* **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.

* **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :

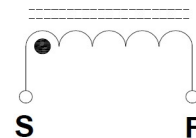
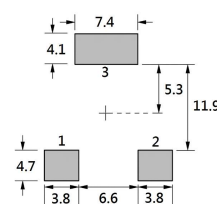
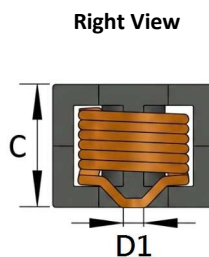
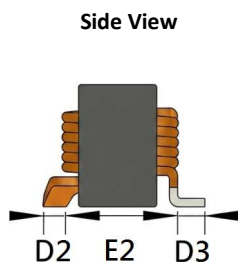
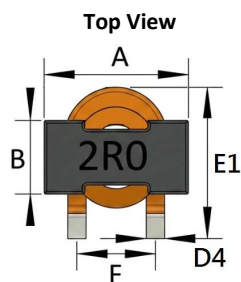
The Turns & Shapes are just for reference

Real Specs are follow sample approve.

GSTF2013PH-SERIES

PCB Layout [mm] : Schematic :

Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (Max.)	C (Max.)	D1 (Ref.)	D2 (Ref.)
20.00	9.70	13.45	3.30	2.57
D3 (Ref.)	D4 (±0.3)	E1 (Max.)	E2 (Min.)	F (±0.5)
3.20	2.50	20.00	12.50	10.80

Electrical Characteristics :

Part No.	L (μ H)	DCR (m Ω)	Isat (A)	Irms (A)
GSTF2013PH-2R0M	2.0	1.82 Max.	37.0 A Typ.	28.0 A Typ.

TEST CONDITION :

* Inductance Test Condition @100 kHz , 0.25 Vrms , 25°C Ambient

* Inductance Tolerance : M = $\pm 20\%$

* **Isat** : DC current(A) that will cause Lo to drop approximate 30%.

* **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.

* **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :

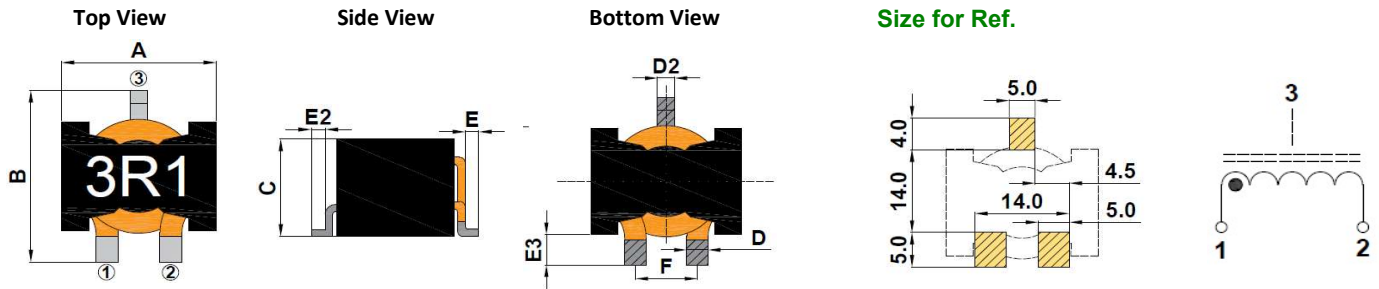
The Turns & Shapes are just for reference

Real Specs are follow sample approve.

GSTF2214PA-SERIES

PCB Layout [mm] : Schematic :

Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (Max.)	C (Max.)	D (± 0.2)	D2 (Ref.)
21.8	22.5	14.5	2.5	2.5
E (± 1.0)	E2 (Ref.)	E3 (± 1.0)	F (± 0.5)	
3.0	2.0	3.5	9.0	

Electrical Characteristics :

Part No.	L (μH)	DCR ($\text{m}\Omega$)	DCR ($\text{m}\Omega$)	Isat (A)	Irms (A)
GSTF2214PA-3R1M	3.1	2.09 Typ.	2.3 Max.	45.0 Typ.	26.0 Typ.

TEST CONDITION :

* Inductance Test Condition @100 kHz , 0.1 Vrms , 25°C Ambient

* Inductance Tolerance : M = $\pm 20\%$

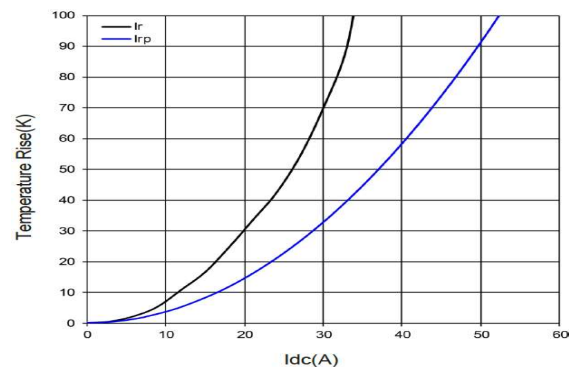
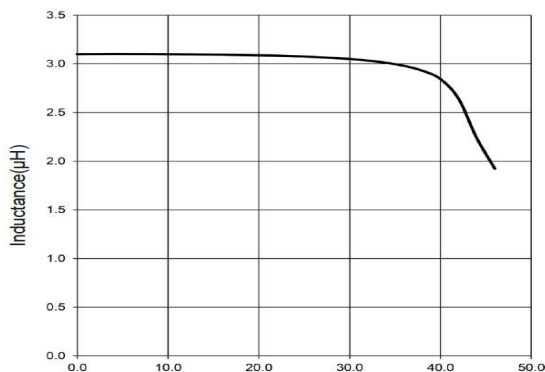
* **Isat** : DC current(A) that will cause Lo to drop approximate 30%.

* **Irms** : DC current(A) that will cause an approximate ΔT of 40°C.

* **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

Typical Performance Curves:



Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

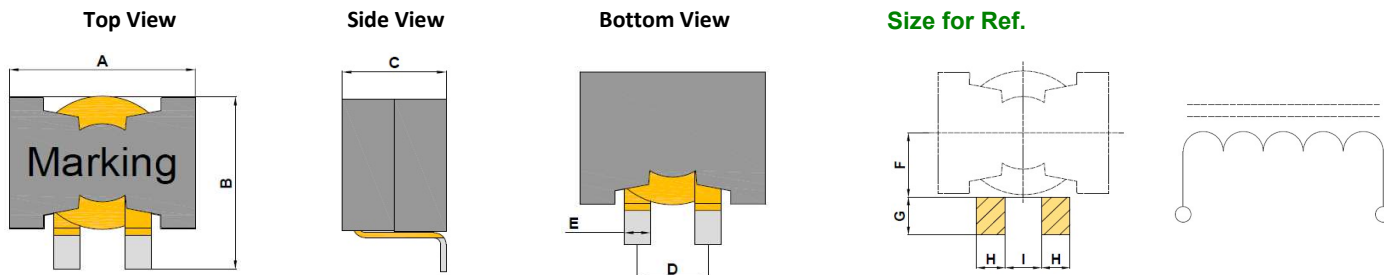
Dimension [mm] :

The Turns & Shapes are just for reference

Real Specs are follow sample approve.

GSTF2814PH-SERIES

PCB Layout [mm] : Schematic :



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (Max.)	C (Max.)	D (±0.5)	E (±0.5)
28.00	28.00	14.30	10.10	4.00
F (Ref.)	G (Ref.)	H (Ref.)	I (Ref.)	
11.56	5.59	5.33	4.84	

Electrical Characteristics :

Part No.	L (μ H)	DCR (m Ω) (Max.)	Isat 1 (A) (Typ.)	Isat 2 (A) (Typ.)	Isat 3 (A) (Typ.)	Irms 1 (A) (Typ.)	Irms 2 (A) (Typ.)	SRF (MHz) (Typ.)
GSTF2814PH-2R2K	2.2	2.01	100.0	>100	>100	20.0	30.0	40.0
GSTF2814PH-3R3K	3.3	2.01	62.0	66.9	68.4	20.0	30.0	30.0
GSTF2814PH-4R7K	4.7	2.01	42.0	48.0	50.1	20.0	30.0	25.0
GSTF2814PH-6R8K	6.8	2.01	30.0	34.5	36.2	20.0	30.0	20.0
GSTF2814PH-100K	10.0	2.01	18.0	21.5	23.4	20.0	30.0	15.0
GSTF2814PH-150K	15.0	2.01	11.5	14.0	15.2	20.0	30.0	12.0
GSTF2814PH-220K	22.0	2.01	7.0	8.6	9.6	20.0	30.0	10.0
GSTF2814PH-330K	33.0	2.01	4.0	5.1	5.9	20.0	30.0	8.0

TEST CONDITION :

* Inductance Test Condition @500 kHz , 0.1 Vrms , 25°C Ambient

* Inductance Tolerance : K = $\pm 10\%$

* Isat 1 : DC current (A) that will cause L0 to drop approximately 10%

* Isat 2 : DC current (A) that will cause L0 to drop approximately 20%

* Isat 3 : DC current (A) that will cause L0 to drop approximately 30%

* Irms 1 : Rated Current Loading when temperature rise approximately 20°C

* Irms 2 : Rated Current Loading when temperature rise approximately 40°C

* **The part temperature (ambient + temp rise) :** Should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

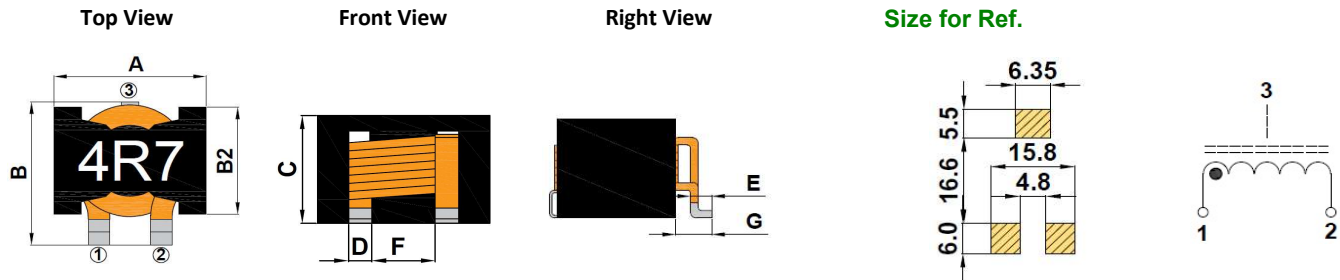
Dimension [mm] :

The Turns & Shapes are just for reference

Real Specs are follow sample approve.

GSTF2815PA-SERIES

PCB Layout [mm] : Schematic :
Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)							
A (Max.)	B (Max.)	B2 (Max.)	C (Max.)	D (Ref.)	E (Min.)	F (±0.5)	G (Ref.)
27.9	27.9	19.5	15.5	3.8	3.8	6.6	6.2

Electrical Characteristics :

Part No.	L (μ H)	DCR (m Ω)	DCR (m Ω)	Isat (A)	Irms (A)
GSTF2815PA-4R7M	4.7	1.58 Typ.	1.8 Max.	50.1 Typ.	30.0 Typ.

TEST CONDITION :

* Inductance Test Condition @100 kHz , 0.1 Vrms , 25°C Ambient

* Inductance Tolerance : M = $\pm$ 20%

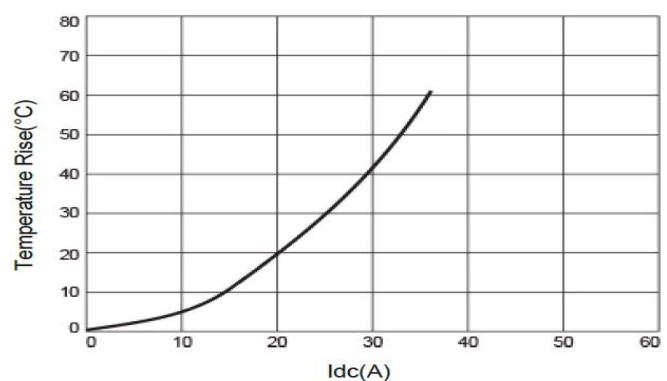
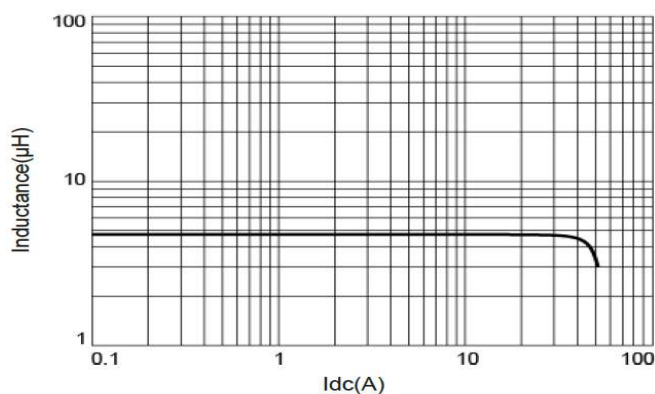
* **Isat** : DC current(A) that will cause Lo to drop approximate 30%.

* **Irms** : DC current(A) that will cause an approximate Δ T of 40°C.

* **The part temperature (ambient + temp rise)** : Should not exceed 125°C under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

Typical Performance Curves:



Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

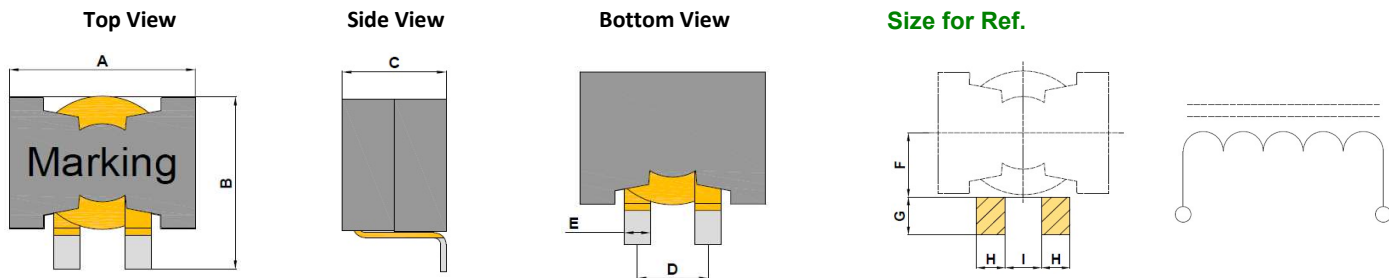
Dimension [mm] :

The Turns & Shapes are just for reference

Real Specs are follow sample approve.

GSTF2818PL-SERIES

PCB Layout [mm] : Schematic :



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)				
A (Max.)	B (Max.)	C (Max.)	D (±0.5)	E (±0.5)
28.00	28.00	18.00	10.40	3.80
F (Ref.)	G (Ref.)	H (Ref.)	I (Ref.)	
11.56	5.59	5.33	5.00	

Electrical Characteristics :

Part No.	Inductance (μ H)	DCR (m Ω) (Max.)	Isat 1 (A) (Typ.)	Isat 2 (A) (Typ.)	Isat 3 (A) (Typ.)	Irms 1 (A) (Typ.)	Irms 2 (A) (Typ.)	SRF (MHz) (Typ.)
GSTF2818PL-3R3K	3.3	2.86	91.0	92.5	93.6	20.0	28.0	40.0
GSTF2818PL-4R7K	4.7	2.86	59.0	61.2	62.4	20.0	28.0	30.0
GSTF2818PL-6R8K	6.8	2.86	42.0	45.0	45.9	20.0	28.0	25.0
GSTF2818PL-100K	10.0	2.86	28.0	31.2	32.1	20.0	28.0	20.0
GSTF2818PL-150K	15.0	2.86	18.0	21.2	21.9	20.0	28.0	16.0
GSTF2818PL-220K	22.0	2.86	12.0	14.0	15.0	20.0	28.0	15.0
GSTF2818PL-330K	33.0	2.86	7.0	8.7	9.6	20.0	28.0	10.0

TEST CONDITION :

* Inductance Test Condition @200 kHz , 0.1 Vrms , 25°C Ambient

* Inductance Tolerance : K = $\pm 10\%$

* Isat 1 : DC current (A) that will cause L0 to drop approximately 10%

* Isat 2 : DC current (A) that will cause L0 to drop approximately 20%

* Isat 3 : DC current (A) that will cause L0 to drop approximately 30%

* Irms 1 : Rated Current Loading when temperature rise approximately 20°C

* Irms 2 : Rated Current Loading when temperature rise approximately 40°C

* **The part temperature (ambient + temp rise) :** Should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature.

Part temperature should be verified in the end application.

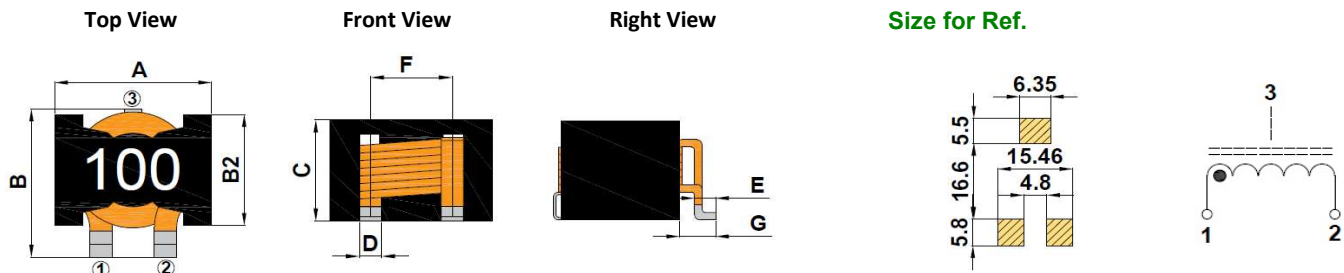
Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Dimension [mm] :
The Turns & Shapes are just for reference
Real Specs are follow sample approve.

GSTF2819PA-SERIES

PCB Layout [mm] : Schematic :

Size for Ref.



This spec. is mainly for Gotrend reserve the right to do design change.

Dimension (Unit : mm)							
A (Max.)	B (Max.)	B2 (Max.)	C (Max.)	D (±0.2)	E (Min)	F (±0.5)	G (Ref.)
28.0	27.9	19.5	18.5	3.8	3.8	10.15	6.0

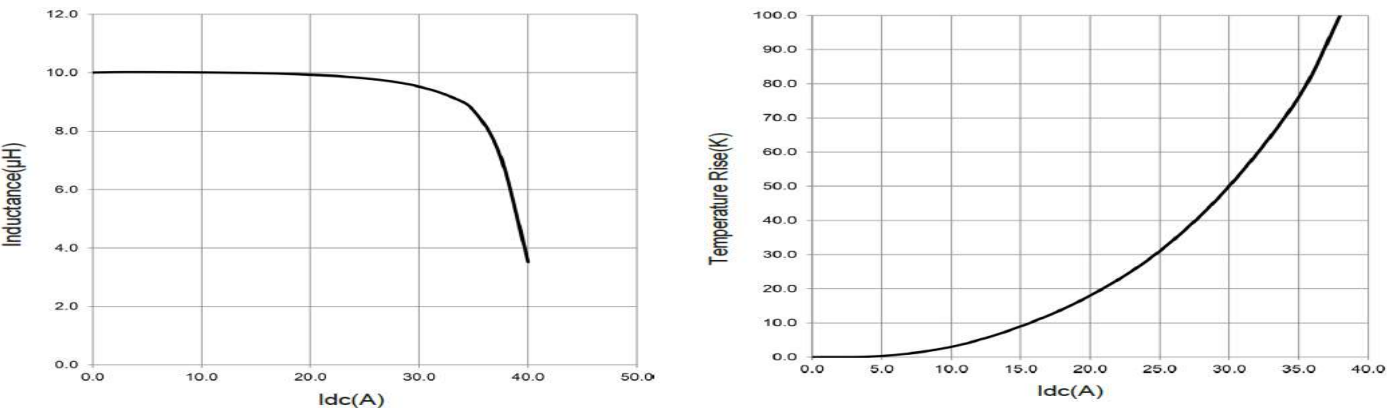
Electrical Characteristics :

Part No.	L (μH)	DCR (mΩ)	DCR (mΩ)	Isat (A)	Irms (A)
GSTF2819PA-100M	10.0	2.4 Typ.	2.64 Max.	37.0 Typ.	30.0 Typ.

TEST CONDITION :

- * Inductance Test Condition @100 kHz , 0.1 Vrms , 25℃ Ambient
 - * Inductance Tolerance : M = ±20%
 - * **Isat** : DC current(A) that will cause Lo to drop approximate 30%.
 - * **Irms** : DC current(A) that will cause an approximate ΔT of 40℃.
 - * **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design,component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature.
- Part temperature should be verified in the end application.

Typical Performance Curves:



Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ 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 :

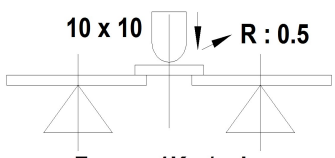
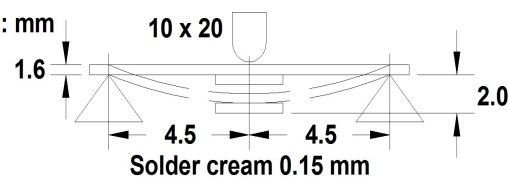
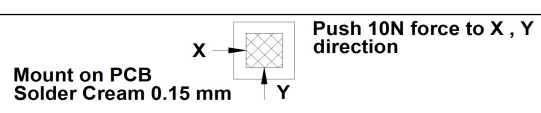
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(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.

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date :	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

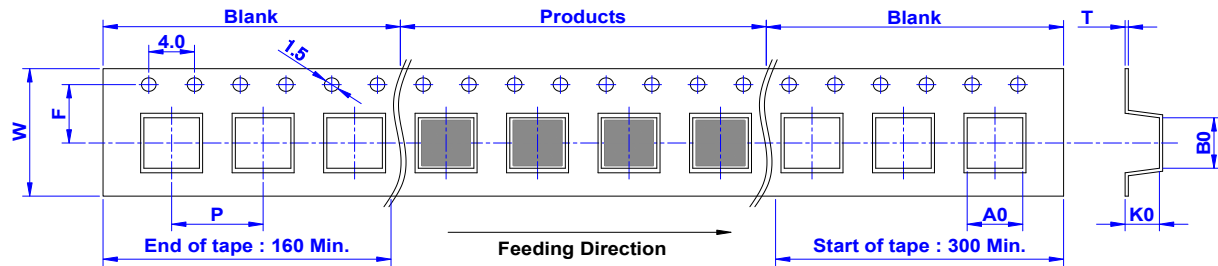
Reliability :

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

Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

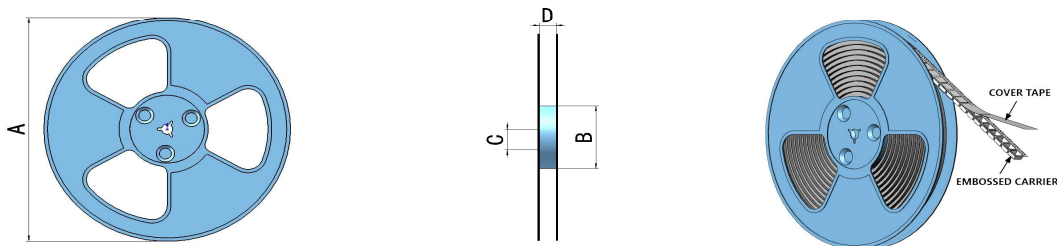
Packaging Information :

Tape Dimension (mm) :



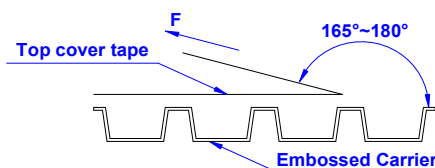
SIZE/mm	W	P	A0	B0	K0	T	F
125P	24	16	13	13	6.5	0.4	11.5
1254PB	24	16	13	13	5.9	0.4	11.5
1290P	24	16	13.2	13.2	9.2	0.45	11
1362P	24	16	12.6	12.6	8.2	0.4	11.5
1480P	24	16	12.6	12.6	8.2	0.4	11.5
2013P	24	16	12.6	12.6	8.2	0.4	11.5
2013PH	44	28.5	26	27	/	/	/
2214PA	44	32	24.5	21.5	15	0.5	20.2
2814PH	44	32	28.5	28.5	14.8	0.5	20.2
2818PL	44	32	28.5	28.5	18.5	0.5	20.2

Reel Dimension (mm) :



SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
125P	13" x 24 mm	330	100	13	24.5	500 PCS
1254PB	13" x 24 mm	330	100	13	24.5	500 PCS
1290P	13" x 24 mm	330	100	13	24.5	300 PCS
1362P	13" x 24 mm	330	100	13	24.5	500 PCS
1480P	13" x 24 mm	330	100	13	24.5	500 PCS
2013P	13" x 24 mm	330	100	13	24.5	500 PCS
2013PH	13" x 44 mm	330	100	13	44.4	150 PCS
2214PA	13" x 44 mm	330	100	13	45.0	120PCS
2818PL	13" x 44 mm	330	100	13	44.5	50 PCS
2814PH	13" x 44 mm	330	100	13	44.5	60 PCS

Tearing Off Force :



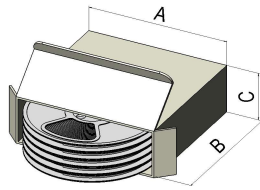
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

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

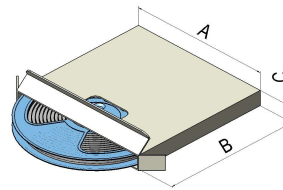
Product Series :	GSTF	Brand :	GOTREND
File Version :	GSTF-SERIES	Prepared by :	JianTao Huang
Established Date	2018.10.01	Description :	High Current Inductor
Latest Edit Date :	2026.07.03	Product Type :	☒ Standard ☐ Customize

Packaging Information :

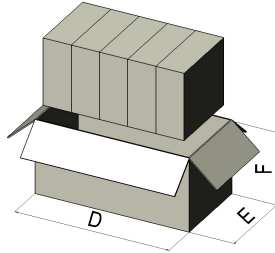
Box Package :



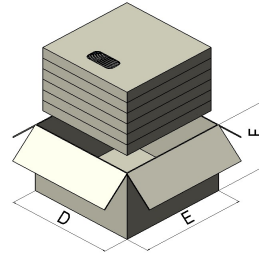
7" Small Box



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)
125P	13"	335	335	38	13"	350	350	220	1(500)	5(2500)
1254PB	13"	335	335	38	13"	350	350	220	1(500)	5(2500)
1290P	13"	335	335	23	13"	350	350	220	1(300)	6(1800)
1254PB	13"	335	335	38	13"	350	350	220	1(500)	5(2500)
1480P	13"	335	335	38	13"	350	350	220	1(500)	5(2500)
2013P	13"	335	335	38	13"	350	350	220	1(500)	5(2500)
2013PH	13"	335	335	54	13"	350	350	245	1(150)	4(600)
2214PA	13"	340	340	54	13"	350	350	245	1 (120)	4 (480)
2814PH	13"	340	340	54	13"	350	350	245	1 (50)	4(200)
2818PL	13"	340	340	54	13"	350	350	245	1 (60)	4 (240)