

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	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.
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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.
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- ◆ 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 corresponding high frequency (1MHz)
- * 100% lead (Pb) free meet RoHS standard
- * DC/DC converter for CPU in Notebook PC



(Picture for reference only)

Part No. Example :

Basic Information :

PN	:	GSTC	061	P	[]	-	R10	M	S
-----		-----	-----	---	---		-----	---	---
ID	:	1	2	3	4		5	6	7
1	:	GOTREND Series : GSTC							
2	:	Type Size Code : 061=7.4 X 6.8 X 1.8							
3	:	P=Pb free < 1000ppm							
4	:	[B] : Material Code							
5	:	Inductance : R10=0.10uH							
6	:	Tolerance : M=+/-20%							
7	:	Materials : [N] [S] [F] type							

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

Operating & Storage Condition :

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

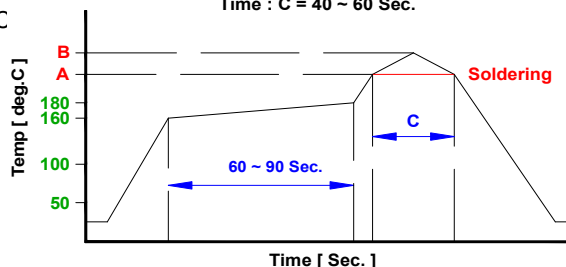


Test Condition :

- * Equipment HP4284A , HP42841A - L , Q , DCR , IDC
HP8753D Network analyzer - SRF
- * Standard Atmosphere Conditions:
Ambient Temperature 20 ± 15 deg.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 deg.C
Humidity RH 75 ± 10%

Recommend IR Reflow Curve : GTX-IR-FILE001

Lead Free Solder : A = 217 deg.C , B = 245+/-5 deg.C
Time : C = 40 ~ 60 Sec.



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

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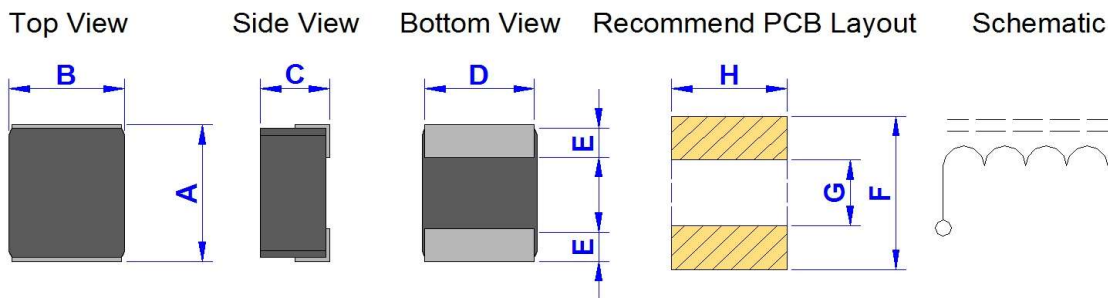
High Current Inductor - GSTC Series Type										
Part Name	L (mm) Typ.	W (mm) Typ.	H (mm) Typ.	Inductance Range (uH) M=+/-20% , N=+/-30%		DCR (m Ohm) Typ.	Isat (A) Typ.	Irms (A) Typ.	Page	
GSTC201610P	2.1	1.7	1.0	0.24		2.2	18.0-150.0	2.45-6.7	2.0-5.1	5-6
GSTC252012PB	2.7	2.2	1.2	0.22		3.3	8.0-144.0	2.0-7.0	1.75-7.3	7-8
GSTC042P	4.5	4.3	2.0	0.1		3.3	4.5-87.0	4.0-30.0	2.5-11.0	9-10
GSTC053P	5.2	4.9	3.0	0.1		6.8	2.0-110.0	3.5-34.0	3.0-32.0	11-13
GSTC061P	7.4	6.8	1.8	0.1		4.7	2.0-70.0	5.0-45.0	3.5-18.0	14-15
GSTC063P	7.3	6.8	3.0	0.1		10.0	1.5-68.0	5.5-60.0	4.0-32.5	16-19
GSTC064P	7.6	6.8	4.0	0.15		0.22	0.66-0.98	35.0-45.0	34.0-36.0	20-21
GSTC104P	11.5	10.3	4.0	0.15		3.3	0.50-16.5	16.0-75.0	9.5-40.0	22-24
GSTC133P	13.8	12.8	3.5	0.22		4.7	1.1-18.0	22.0-65.0	9.0-38.0	25-26
GSTC135P	14.0	12.8	5.2	0.15		6.8	0.55-18.5	21.0-110.0	11.0-45.0	27-29
GSTC4020PT	4.4	4.2	1.8	0.1		4.7	3.3-105.0	3.2-23.0	2.4-12.3	30-31
GSTC5018PH	5.4	5.2	1.6	0.33		10.0	5.7-154.0	2.8-19.1	2.3-16.0	32-33
GSTC6015PE	6.86	6.47	1.3	0.12		10.0	3.0-175.0	3.0-29.0	2.0-19.0	34-36
GSTC6018PH	7.05	6.6	1.6	0.22		10.0	4.3-153.0	3.0-29.0	2.3-18.0	37-38
GSTC6030PT	6.95	6.6	2.8	0.1		33.0	0.81-284.0	2.0-60.2	1.8-40.0	39-42
GSTC6040PT	7.6	6.6	3.8	0.15		0.42	0.66-1.55	19.0-50.0	21.0-40.0	43-44
GSTC1030PT	10.85	10.0	2.8	1.0		22.0	5.2-97.0	4.5-23.0	2.9-15.0	45-46
GSTC1040PT	11.15	10.0	3.8	0.22		4.7	0.6-13.8	16.0-72.0	11.0-50.0	47-48
GSTC1040PB	11.15	10.0	3.8	0.22		47.0	0.82-143.0	3.7-61.0	2.8-36.0	49-51
GSTC1040PL	11.15	10.0	3.8	0.22		1.0	0.6-2.3	28.0-72.0	22.5-50.0	52-53
GSTC1040PS	11.15	10.0	3.8	0.22		5.6	0.85-19.3	16.0-90.0	8.0-40.0	54-55
GSTC1045PE	10.85	10.0	4.3	2.2		6.8	5.8-24.0	9.5-18.0	7.0-14.0	56-57
GSTC1235PE	13.45	12.6	3.3	0.33		6.8	1.3-26.0	14.9-74.0	7.0-36.5	58-59
GSTC1250PT	13.45	12.6	4.8	0.47		22.0	0.95-58.0	5.7-55.0	4.1-37.0	60-61
GSTC1350PT	13.45	12.6	4.8	0.47		6.8	1.05-18.5	20.0-75.0	9.0-38.0	62-63



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GSTC201610P-SERIES

Dimension [mm] :



A(Max.)	B(Max.)	C(Max.)	D(+/-0.1)	E(+/-0.2)	F(Ref.)	G(Ref.)	H(Ref.)
2.1	1.7	1.0	1.6	0.5	2.0	0.7	1.6

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]	Irms (Amp) [Typ.] / [Max.]
GSTC201610P-R24M	0.24	18.0 / 23.0	6.70 / 6.10	5.10 / 4.50
GSTC201610P-R33M	0.33	21.0 / 26.0	5.70 / 5.20	4.80 / 4.40
GSTC201610P-R47M	0.47	26.0 / 32.0	4.90 / 4.50	4.40 / 4.05
GSTC201610P-R68M	0.68	40.0 / 50.0	4.60 / 4.00	3.40 / 3.10
GSTC201610P-1R0M	1.00	49.0 / 59.0	3.90 / 3.65	3.20 / 3.00
GSTC201610P-1R5M	1.50	99.0 / 109.0	3.00 / 2.70	2.35 / 2.05
GSTC201610P-2R2M	2.20	142.0 / 150.0	2.65 / 2.45	2.20 / 2.00

* **Test Condition:** @1MHz, 1.0Vrms, 25°C Ambient

* **Isat:** Saturated Current measured at the point of L drop approximately 30%

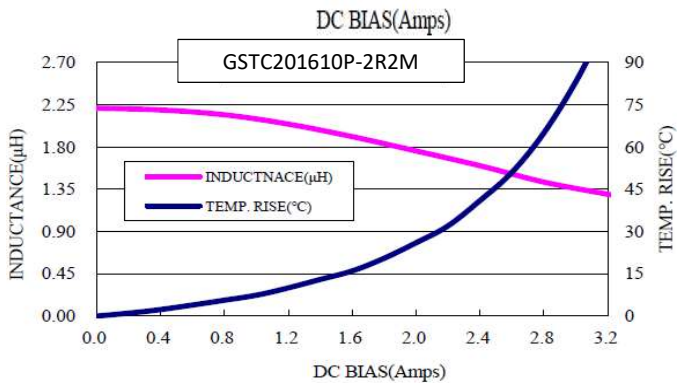
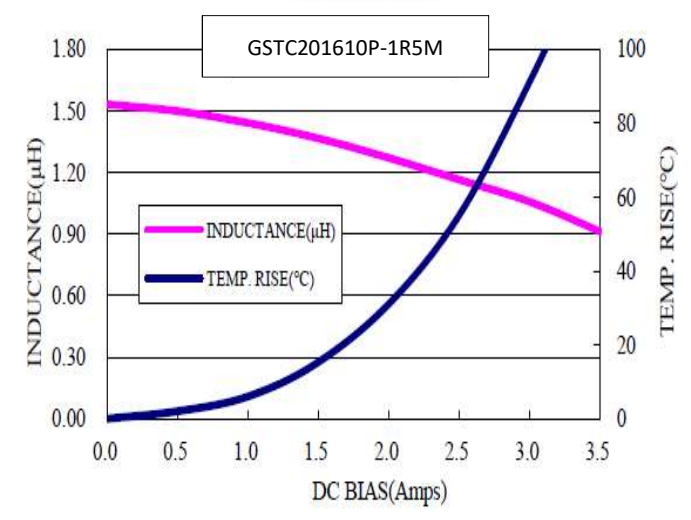
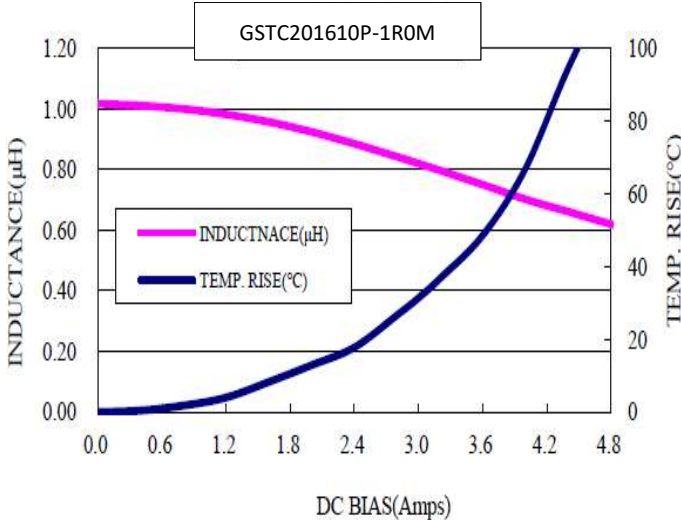
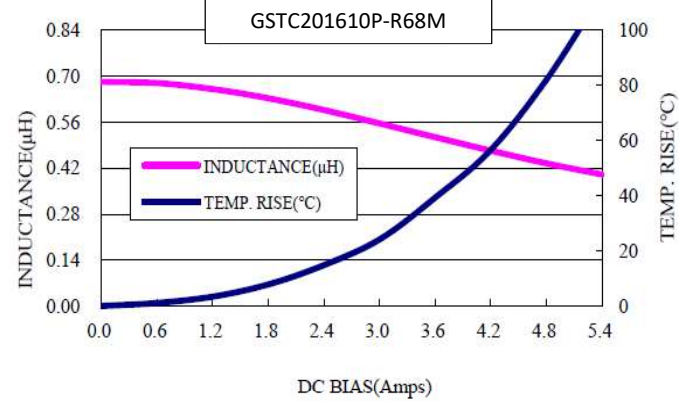
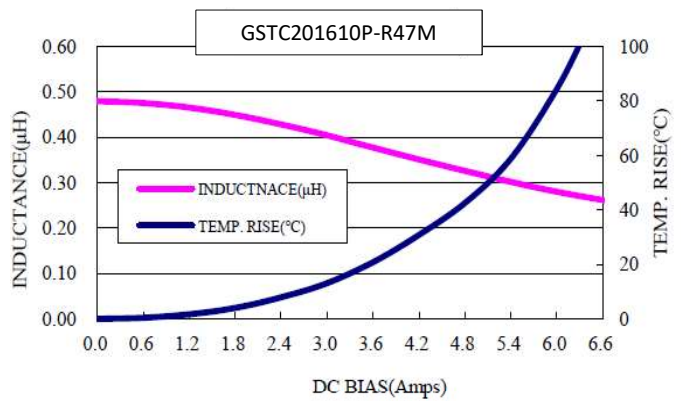
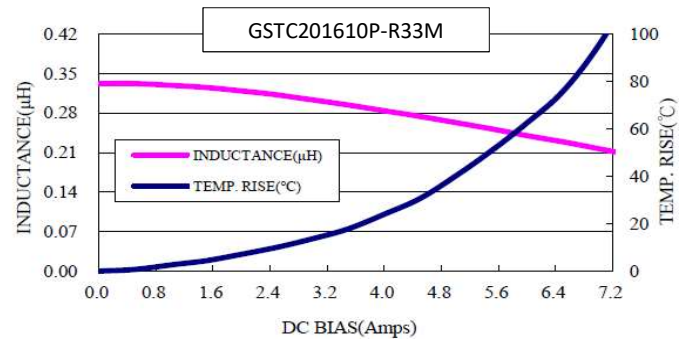
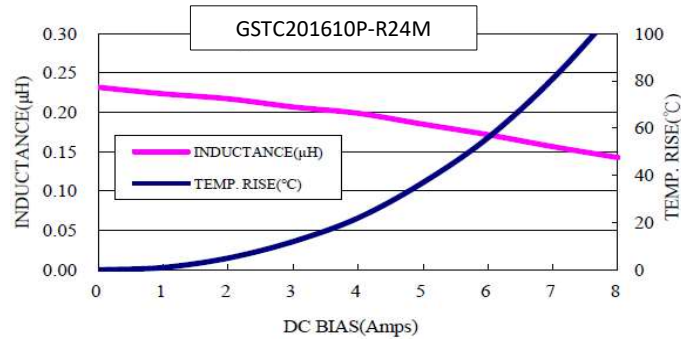
* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

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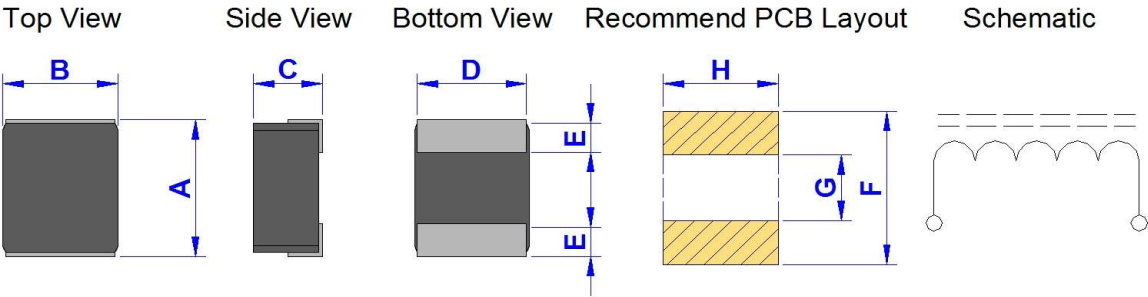
Current Characteristic :



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GSTC252012PB-SERIES

Dimension [mm] :



A(Max.)	B(Max.)	C(Max.)	D(+/-0.2)	E(+/-0.2)	F(Ref.)	G(Ref.)	H(Ref.)
2.7	2.2	1.2	2.0	0.6	2.8	1.2	2.0

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC252012PB-R22MS	0.22	8.0 / 10.0	7.00	7.30
GSTC252012PB-R33MS	0.33	14.0 / 17.0	5.80	5.50
GSTC252012PB-R47MS	0.47	23.0 / 28.0	5.00	4.50
GSTC252012PB-R50MS	0.50	25.0 / 30.0	4.80	4.30
GSTC252012PB-1R0MS	1.00	45.0 / 55.0	3.80	3.10
GSTC252012PB-1R5MS	1.50	58.0 / 70.0	2.90	2.70
GSTC252012PB-2R2MS	2.20	86.0 / 105.0	2.50	2.30
GSTC252012PB-3R3MS	3.30	120.0 / 144.0	2.00	1.75

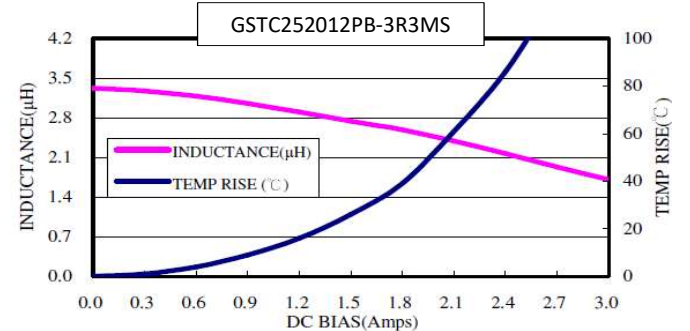
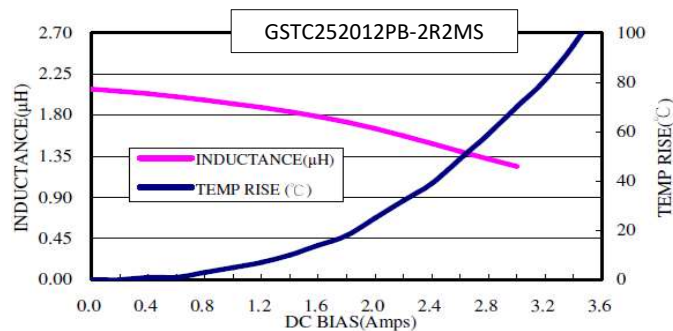
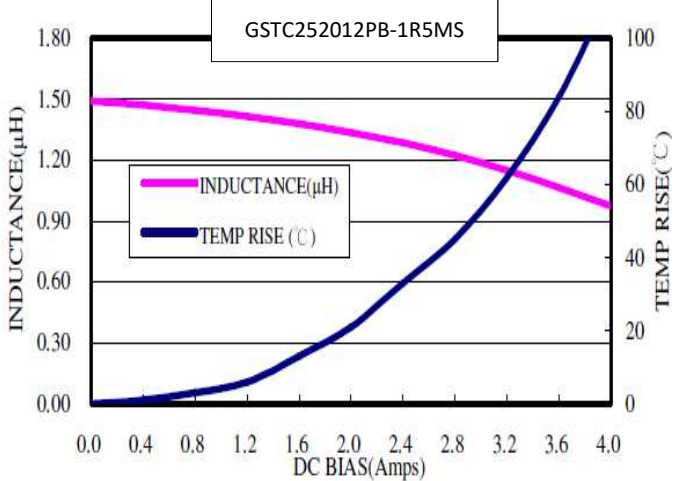
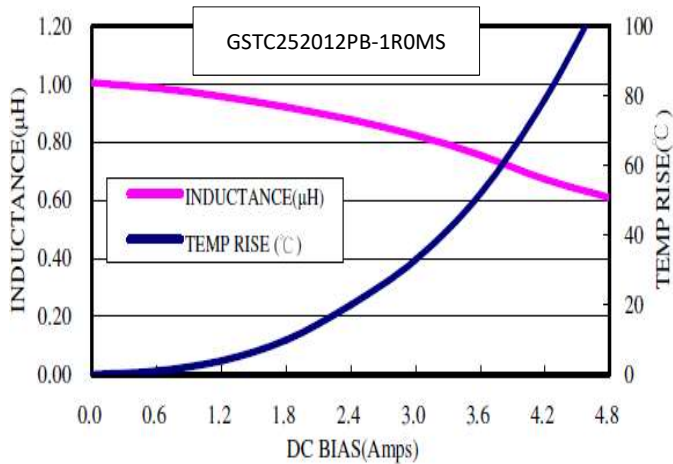
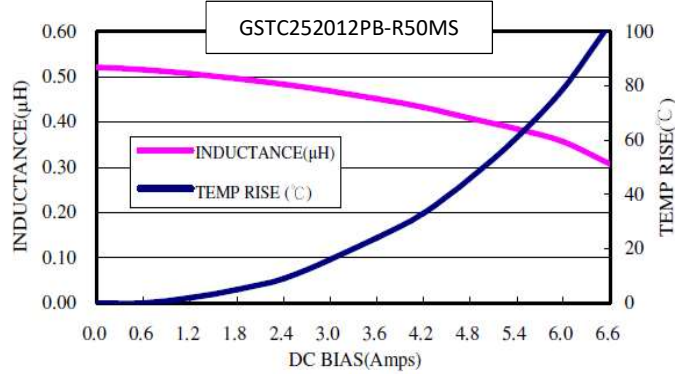
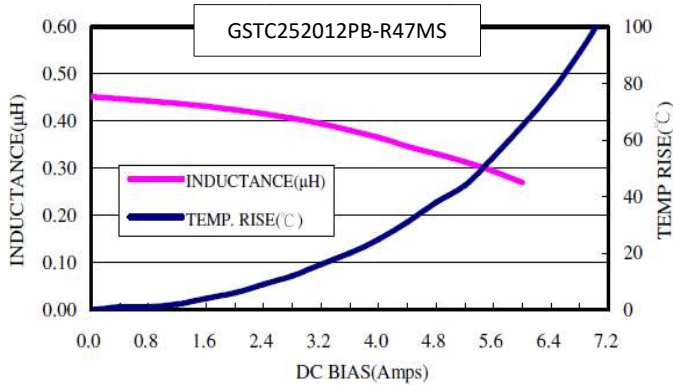
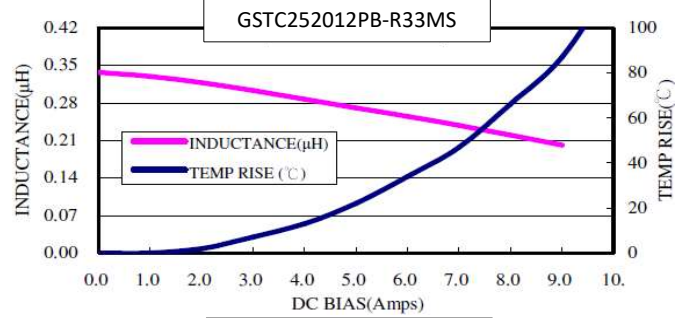
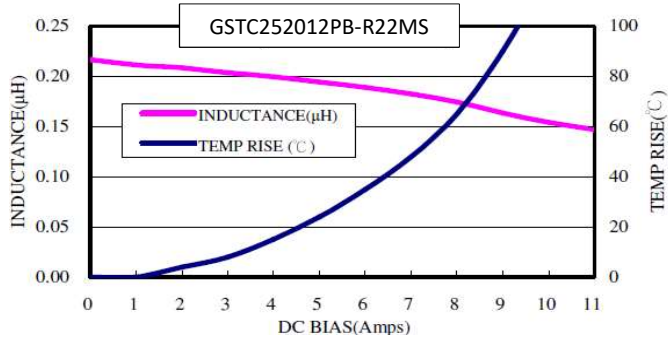
- * **Test Condition:** @1MHz,1.0Vrms, 25°C Ambient
- * **Isat:** Saturated Current measured at the point of L drop approximately 30%
- * **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

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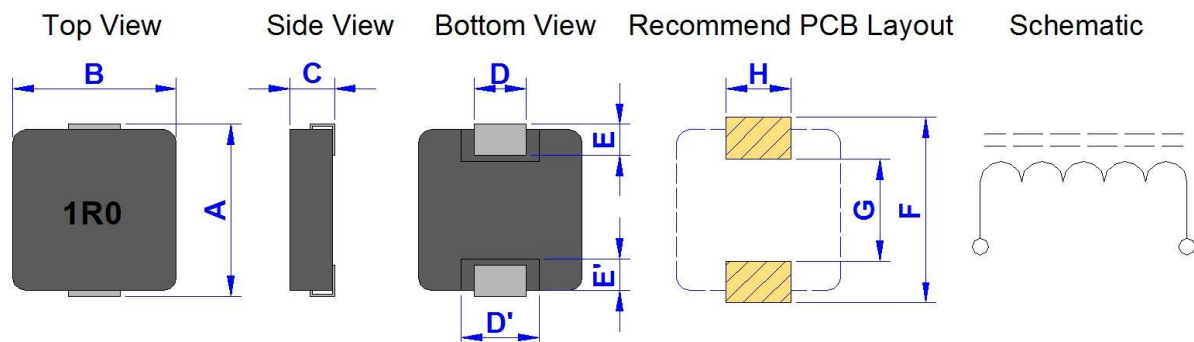
Current Characteristic :



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GSTC042P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
042	4.50	4.30	2.00	1.50	2.20	0.80	1.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	5.20	2.20	2.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC042P-R10MN	0.10	4.50 / 5.00	30.0	11.0
GSTC042P-R22MN	0.22	7.30 / 8.00	17.0	9.0
GSTC042P-R47MN	0.47	14.00 / 15.50	11.5	6.0
GSTC042P-1R0MN	1.00	32.00 / 36.00	8.5	3.8
GSTC042P-R10MS	0.10	3.50 / 4.00	22.0	12.0
GSTC042P-R22MS	0.22	6.00 / 6.60	12.5	9.0
GSTC042P-R47MS	0.47	12.50 / 14.00	9.5	7.0
GSTC042P-1R0MS	1.00	24.00 / 27.00	7.0	4.5
GSTC042P-1R5MS	1.50	38.00 / 46.00	6.0	4.0
GSTC042P-2R2MS	2.20	52.00 / 58.00	5.0	3.0
GSTC042P-3R3MS	3.30	74.00 / 87.00	4.0	2.5

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

* **Isat:** Saturated Current measured at the point of L drop approximately 20% [N TYPE]

* **Isat:** Saturated Current measured at the point of L drop approximately 30% [S TYPE]

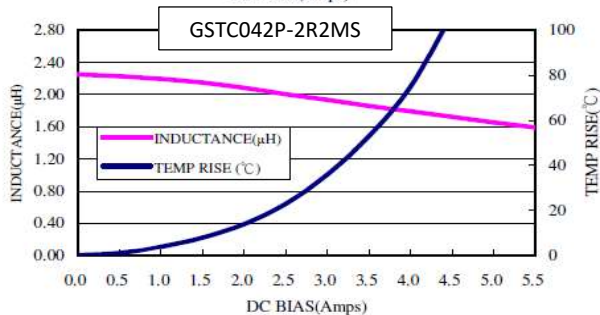
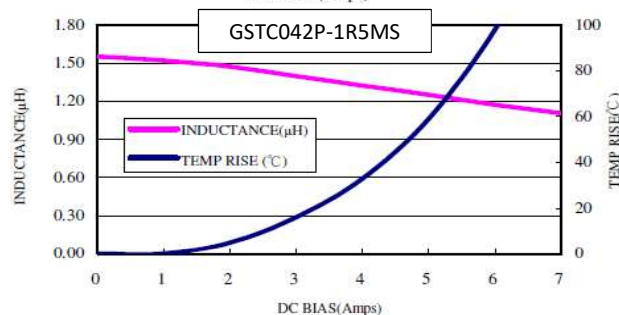
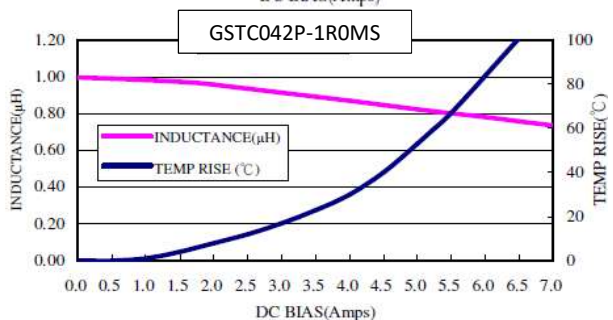
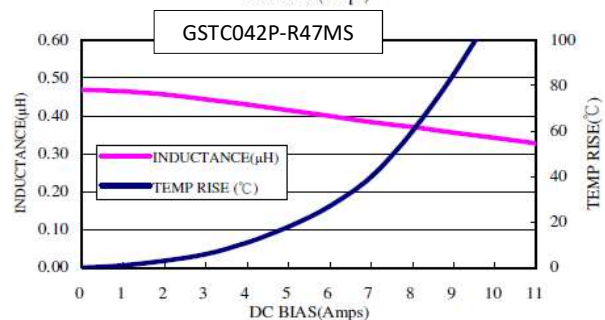
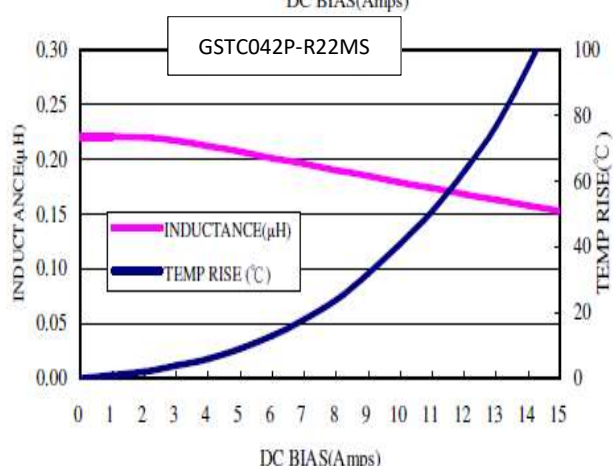
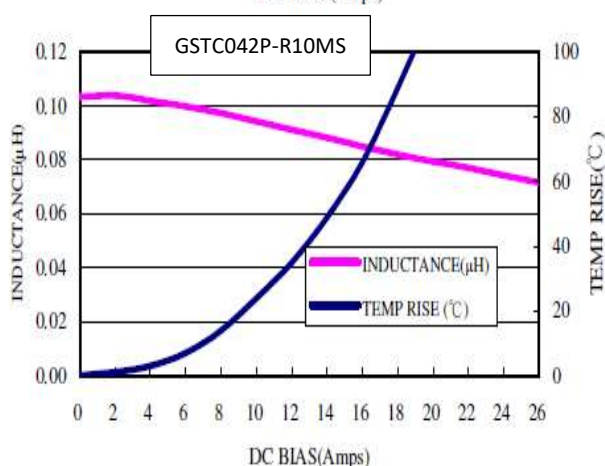
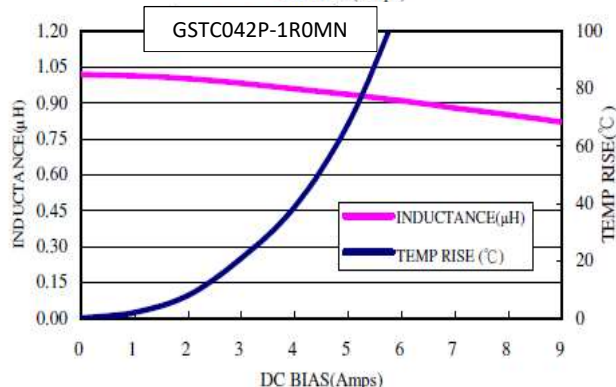
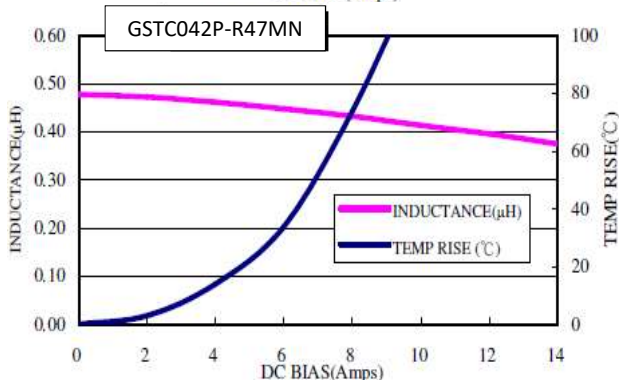
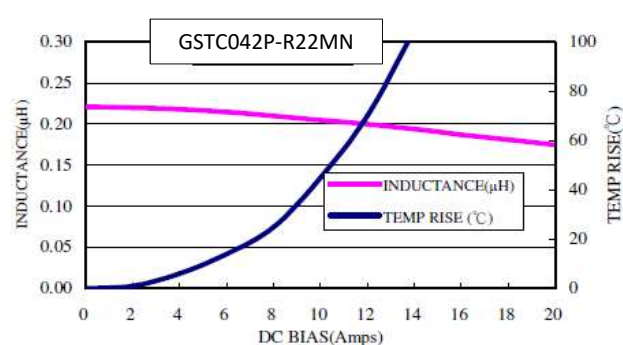
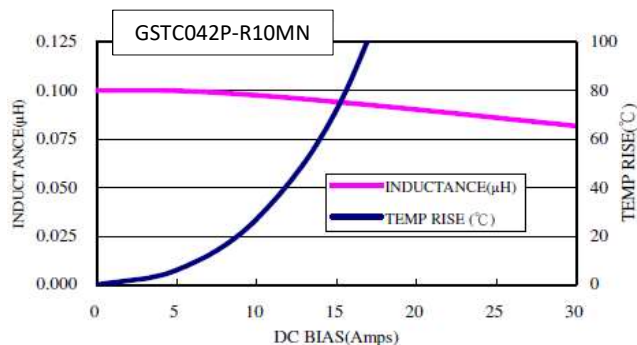
* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

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Product Type :	☒ Standard ☐ Customize

GSTC042P-SERIES

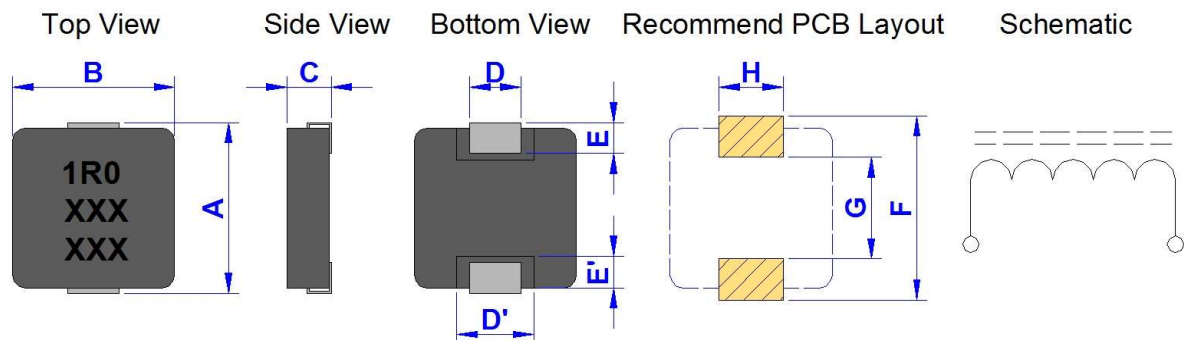
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC053P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
053	5.20	4.90	3.00	1.50	2.20	1.00	1.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	7.00	3.00	2.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC053P-R68MN	0.68	11.0 / 12.00	14.0	8.5
GSTC053P-1R0MN	1.00	13.0 / 14.00	11.0	7.0
GSTC053P-1R2MN	1.20	15.0 / 16.00	11.0	6.5
GSTC053P-1R5MN	1.50	20.0 / 25.00	10.0	6.0
GSTC053P-2R2MN	2.20	29.0 / 35.00	9.0	5.5
GSTC053P-3R3MN	3.30	32.0 / 38.00	7.0	5.0
GSTC053P-R10MS	0.10	2.00 / 2.50	34.0	32.0
GSTC053P-R12MS	0.12	2.20 / 2.60	32.0	30.0
GSTC053P-R20MS	0.20	3.50 / 3.90	14.5	21.0
GSTC053P-R22MS	0.22	3.50 / 3.90	14.5	21.0
GSTC053P-R35MS	0.35	4.50 / 5.00	9.0	16.5
GSTC053P-R47MS	0.47	7.40 / 8.50	12.0	13.0
GSTC053P-R56MS	0.56	8.20 / 9.50	10.0	11.0
GSTC053P-4R7MS	4.70	50.0 / 60.00	5.0	3.0
GSTC053P-6R8MS	6.80	96.0 / 110.00	3.5	3.0

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

* **Isat:** Saturated Current measured at the point of L drop approximately 20% [N TYPE]

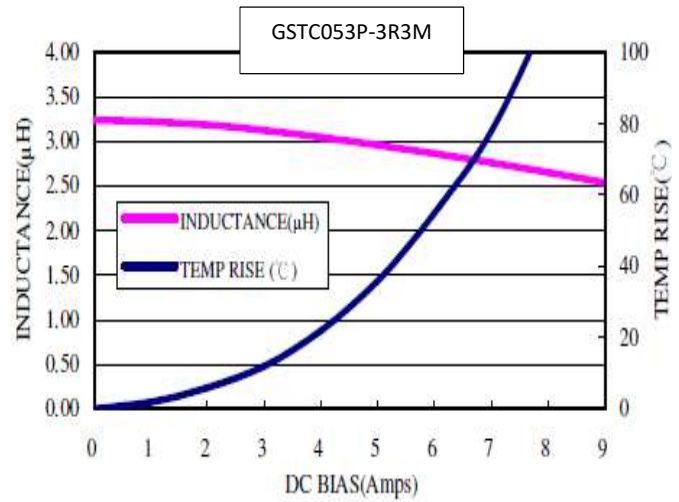
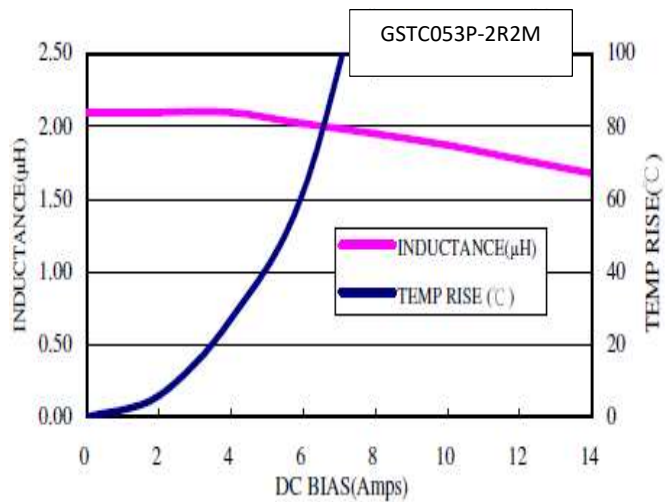
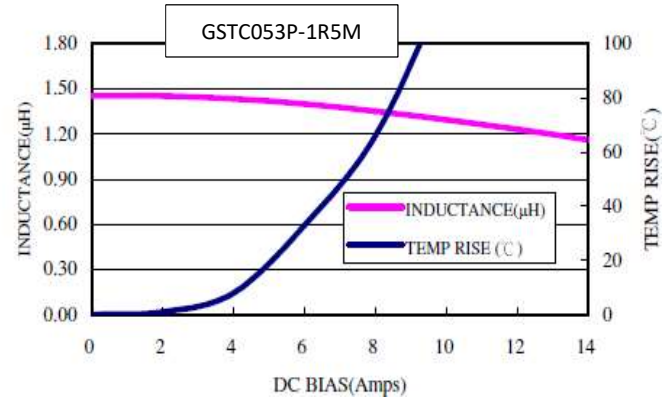
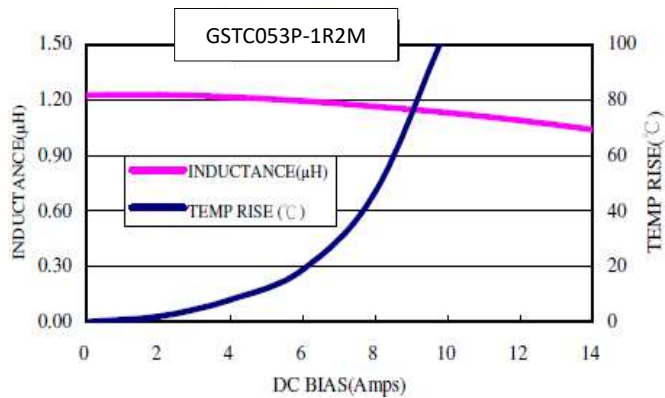
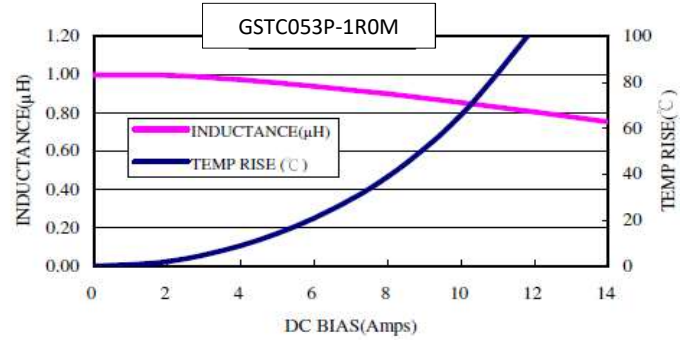
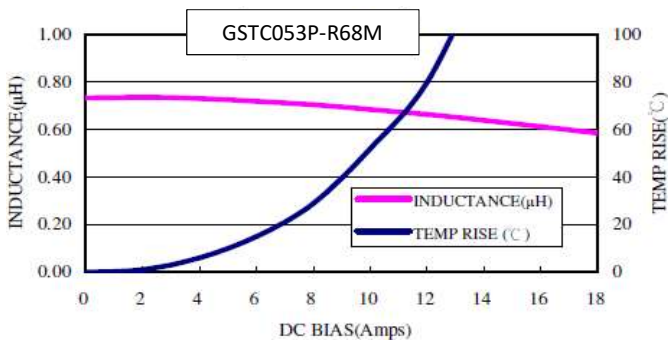
* **Isat:** Saturated Current measured at the point of L drop approximately 30% [S TYPE]

* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC053P-SERIES

Current Characteristic :

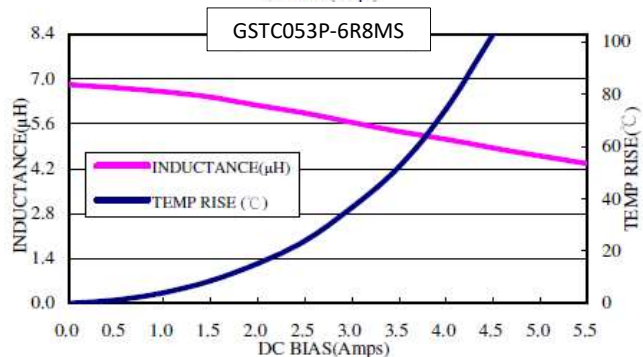
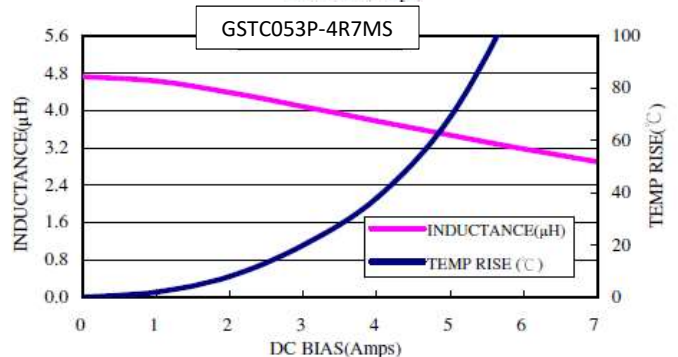
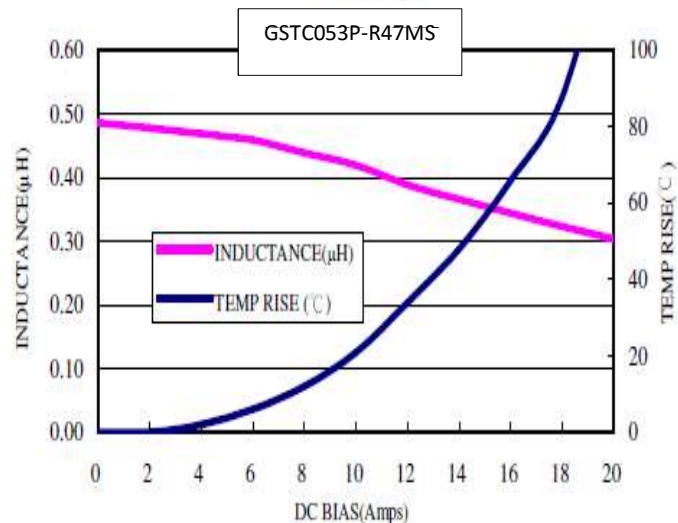
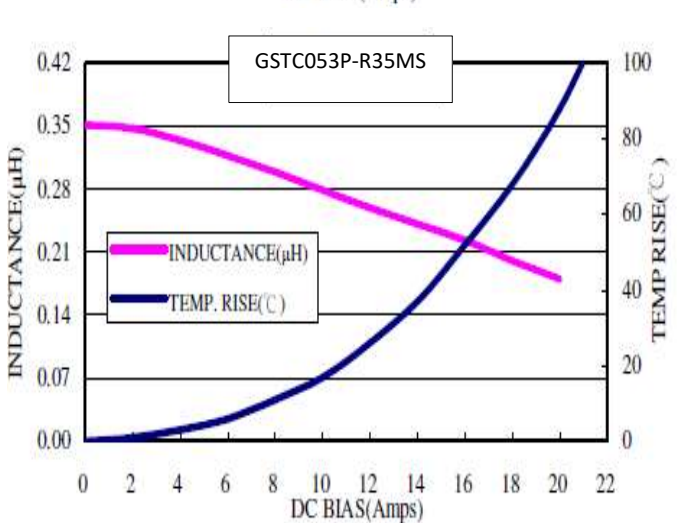
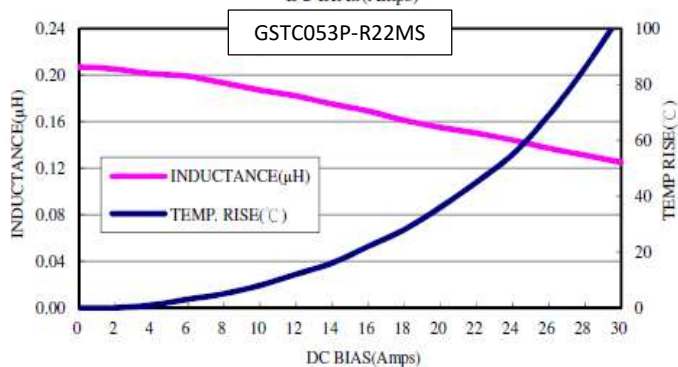
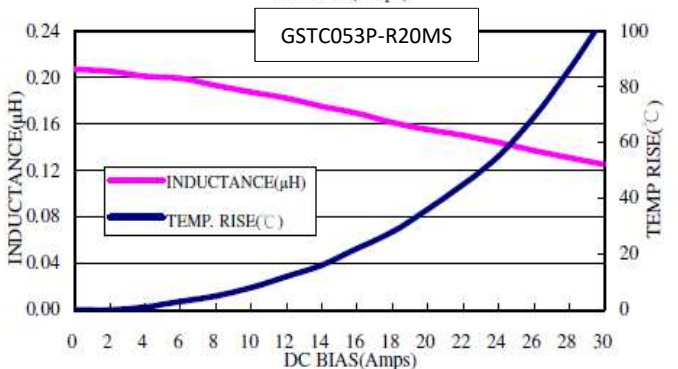
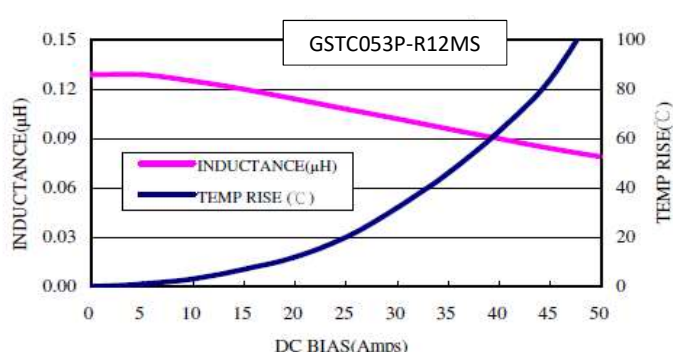
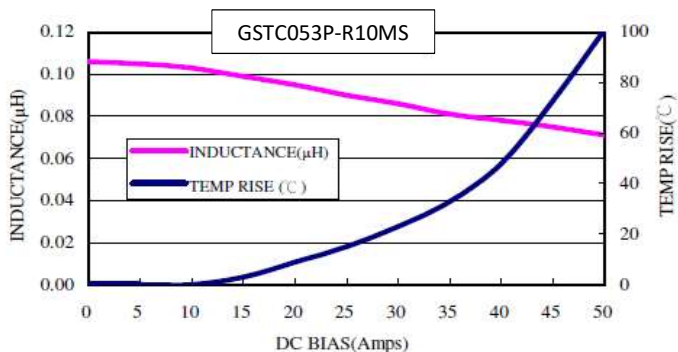


Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC053P-SERIES

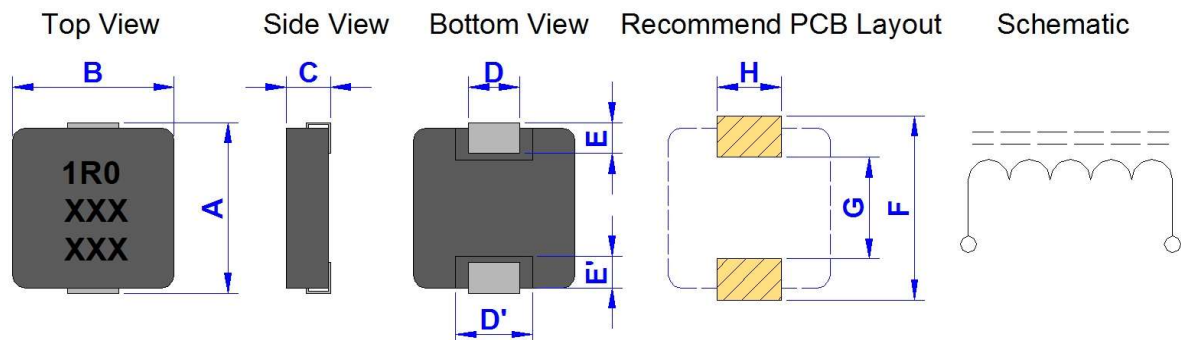
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC061P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
061	7.40	6.80	1.80	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC061P-R10MS	0.10	2.00 / 2.50	45.0	18.0
GSTC061P-R33MS	0.33	5.20 / 6.80	22.0	12.0
GSTC061P-R47MS	0.47	7.30 / 8.40	18.0	11.0
GSTC061P-R68MS	0.68	10.80 / 12.70	17.0	9.0
GSTC061P-1R0MS	1.00	14.50 / 17.00	14.0	7.0
GSTC061P-2R0MS	2.00	28.00 / 32.00	13.0	6.0
GSTC061P-2R2MS	2.20	31.00 / 35.00	13.0	6.0
GSTC061P-3R3MS	3.30	56.00 / 60.00	10.0	3.5
GSTC061P-4R7MS	4.70	68.00 / 70.00	5.0	3.5

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

* **Isat:** Saturated Current measured at the point of L drop approximately 30%

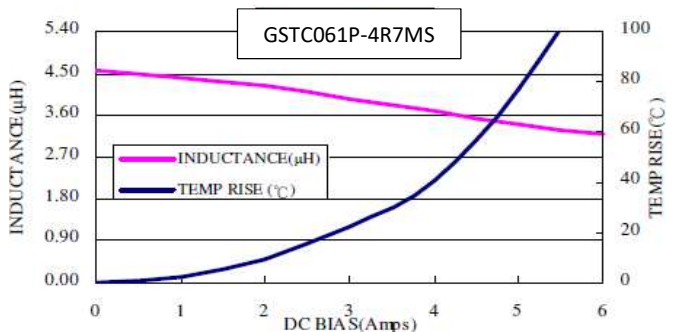
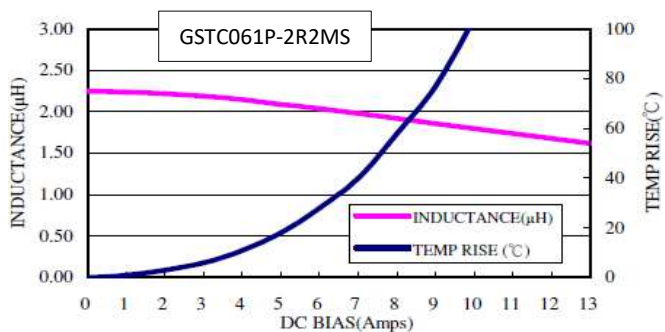
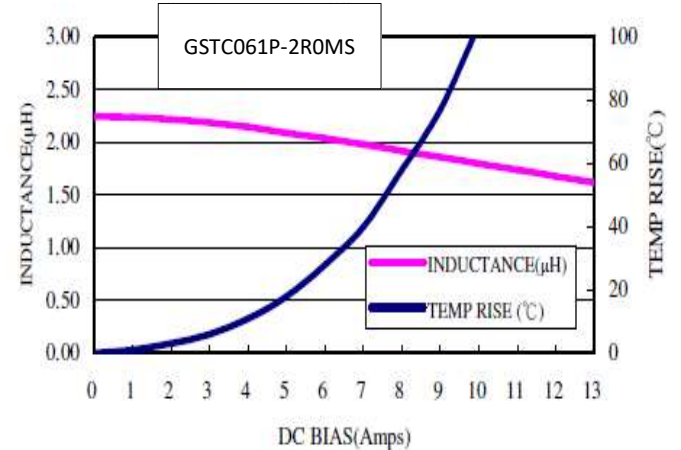
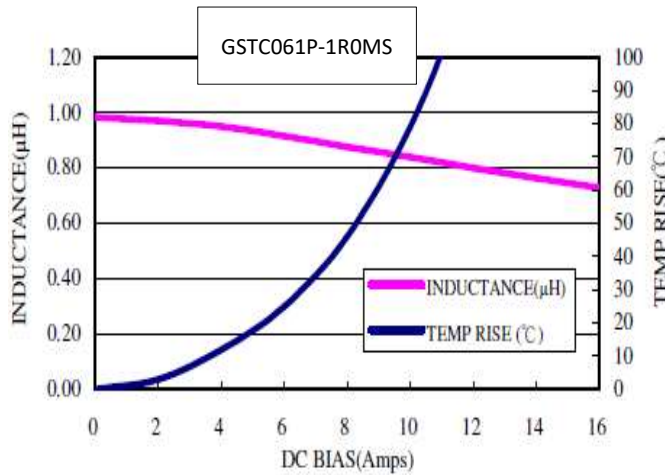
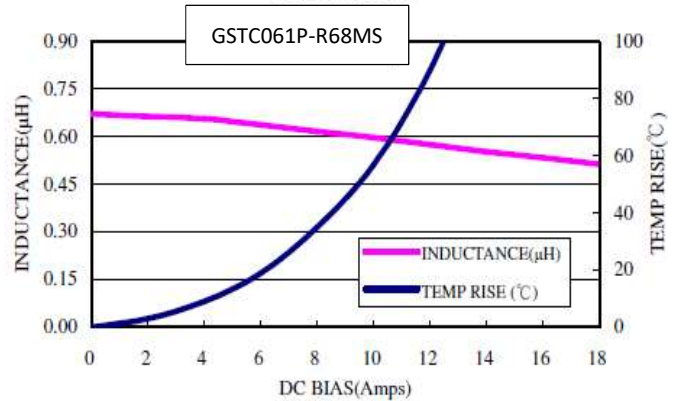
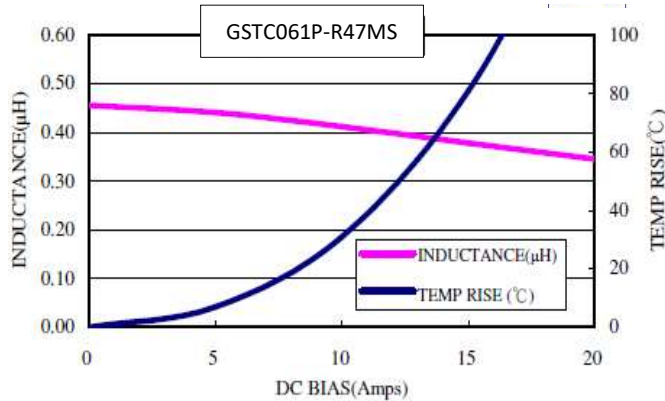
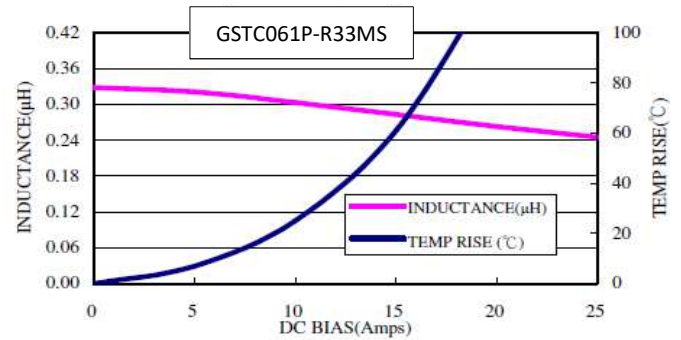
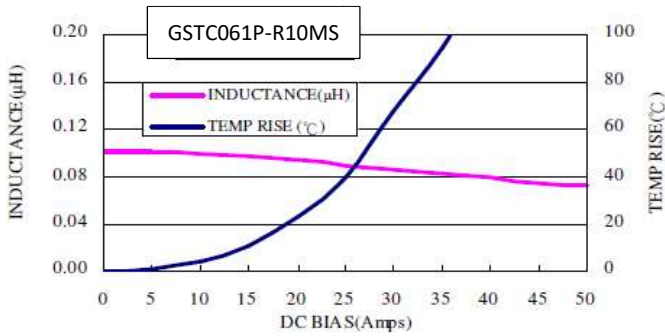
* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC061P-SERIES

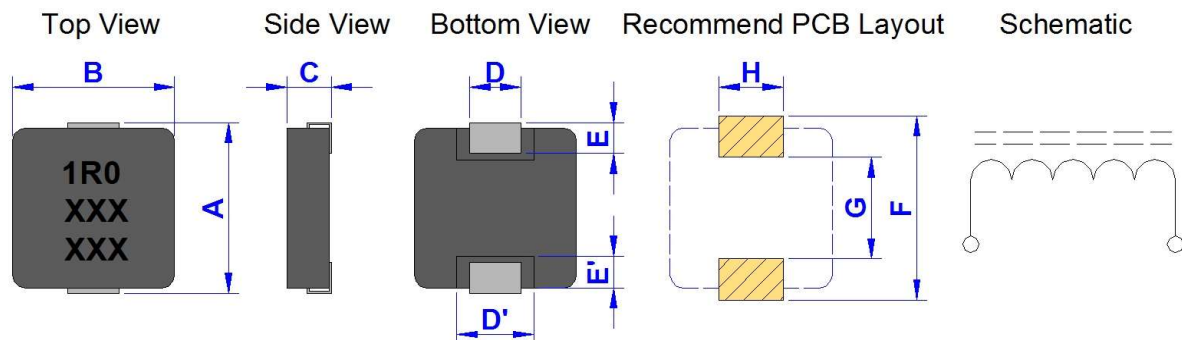
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC063P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
063	7.30	6.80	3.00	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC063P-1R5MS	1.50	10.80 / 12.00	11.5	9.0
GSTC063P-2R2MS	2.20	18.00 / 20.00	10.0	8.0
GSTC063P-4R7MS	4.70	32.50 / 35.00	6.5	5.5
GSTC063P-8R2MS	8.20	54.00 / 60.00	6.0	4.5
GSTC063P-100MS	10.00	62.00 / 68.00	5.5	4.0
GSTC063P-R10MN	0.10	1.50 / 1.70	60.0	32.5
GSTC063P-R20MN	0.20	2.40 / 3.00	41.0	24.0
GSTC063P-R22MN	0.22	2.50 / 2.80	40.0	23.0
GSTC063P-R25MN	0.25	3.00 / 3.50	39.0	21.0
GSTC063P-R33MN	0.33	3.50 / 3.90	30.0	20.0
GSTC063P-R47MN	0.47	4.00 / 4.20	26.0	17.5
GSTC063P-R56MN	0.56	4.70 / 5.00	25.5	16.5
GSTC063P-R68MN	0.68	5.00 / 5.50	25.0	15.5
GSTC063P-R82MN	0.82	6.70 / 8.00	24.0	13.0
GSTC063P-R90MN	0.90	9.00 / 10.00	22.0	11.0
GSTC063P-1R0MN	1.00	9.00 / 10.00	22.0	11.0
GSTC063P-1R2MN	1.20	10.00 / 12.00	20.0	10.0
GSTC063P-1R5MN	1.50	14.00 / 15.00	18.0	9.0
GSTC063P-2R2MN	2.20	18.00 / 20.00	14.0	8.0
GSTC063P-2R5MN	2.50	20.00 / 22.00	14.0	7.0
GSTC063P-3R3MN	3.30	28.00 / 30.00	13.5	6.0
GSTC063P-4R7MN	4.70	37.00 / 40.00	10.0	5.5
GSTC063P-6R8MN	6.80	54.00 / 60.00	8.0	4.5

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

* **Isat:** Saturated Current measured at the point of L drop approximately 20% [N TYPE]

* **Isat:** Saturated Current measured at the point of L drop approximately 30% [S TYPE]

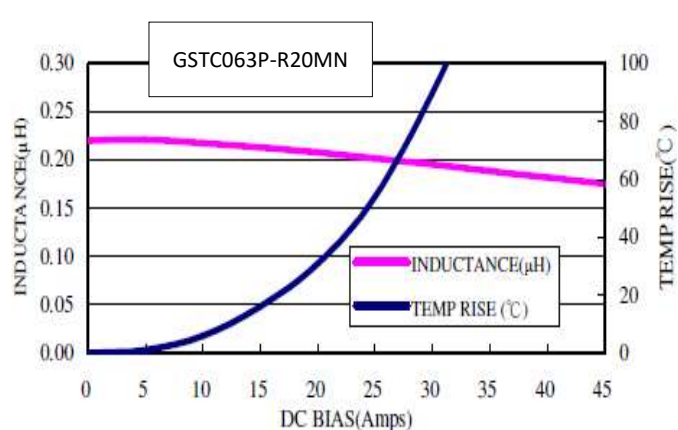
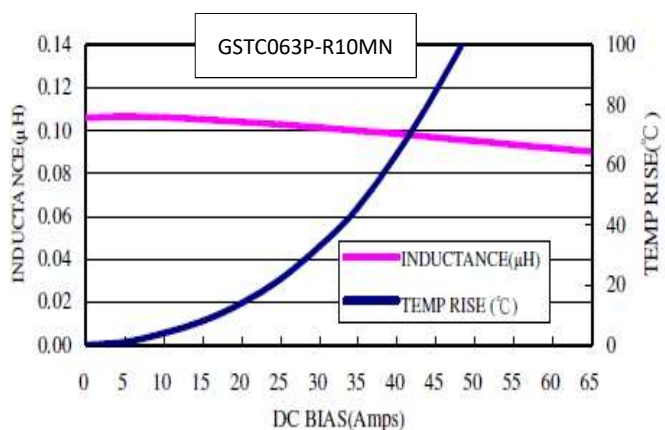
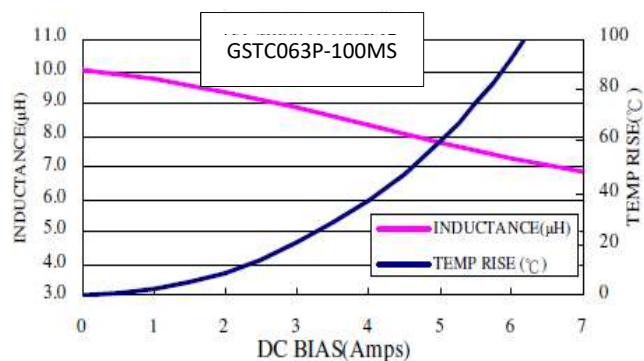
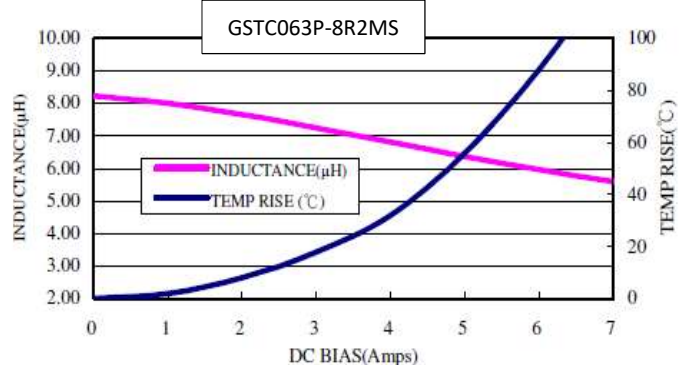
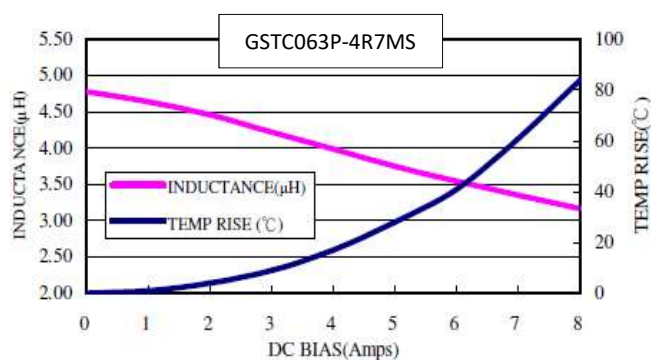
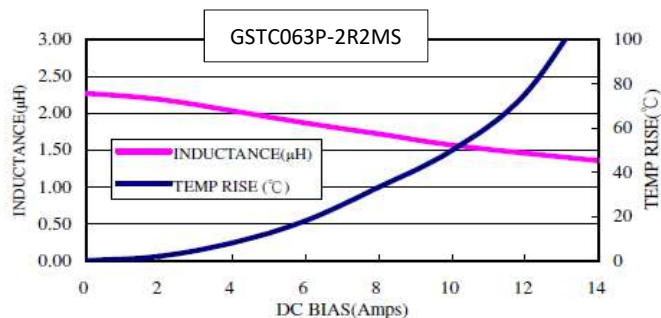
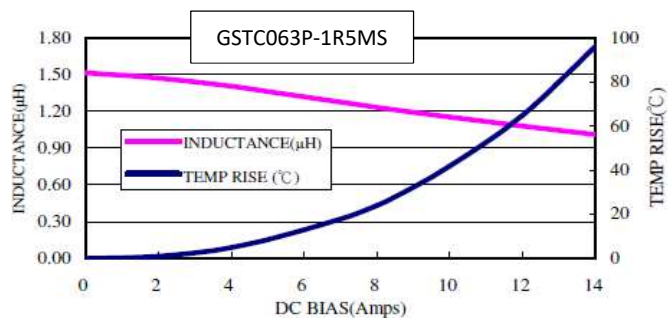
* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC063P-SERIES

Current Characteristic :

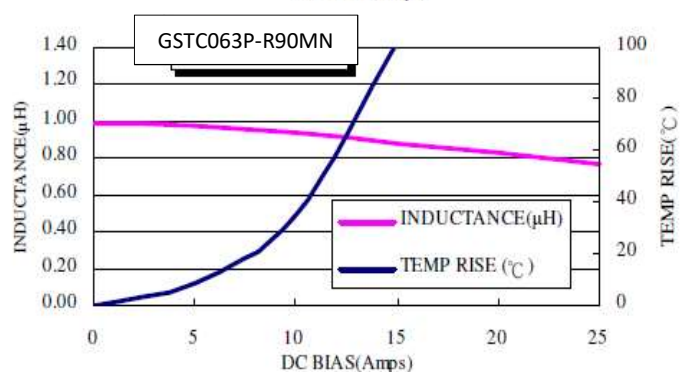
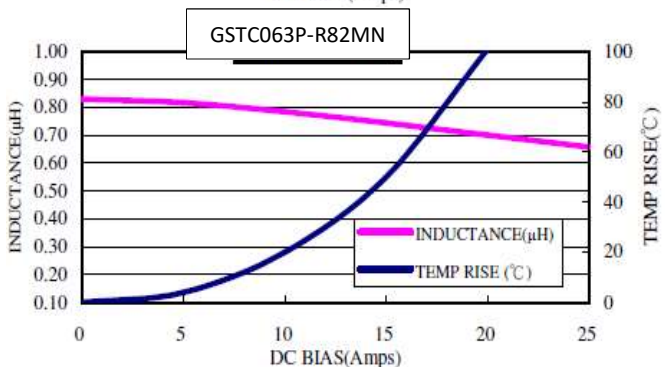
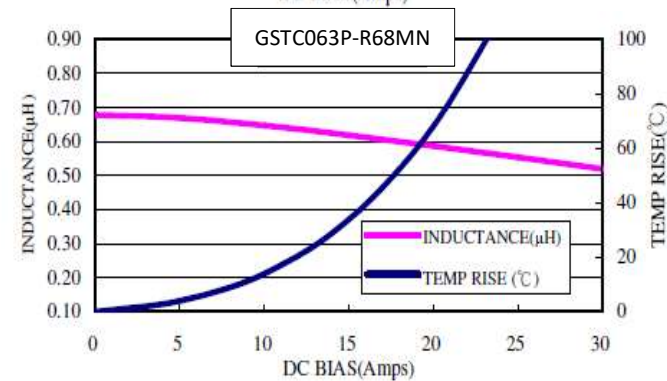
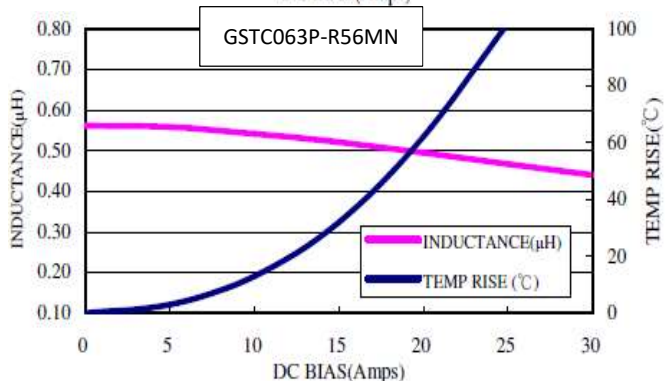
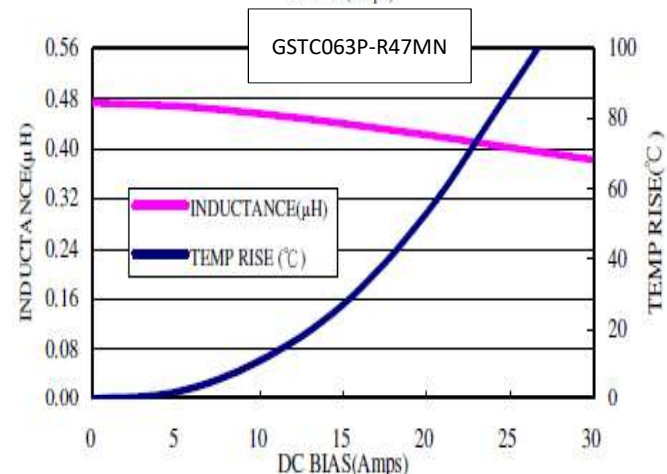
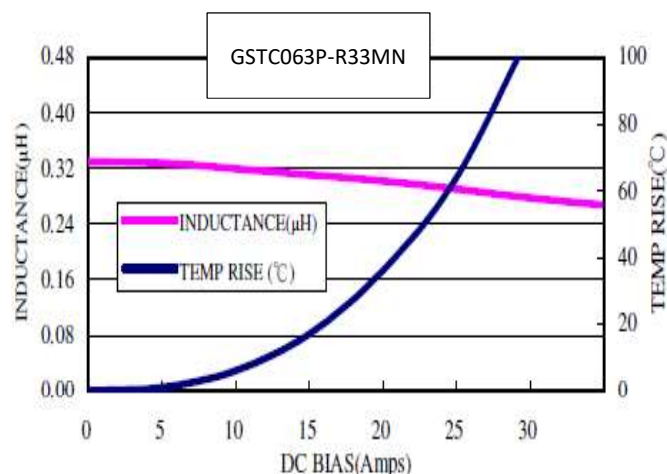
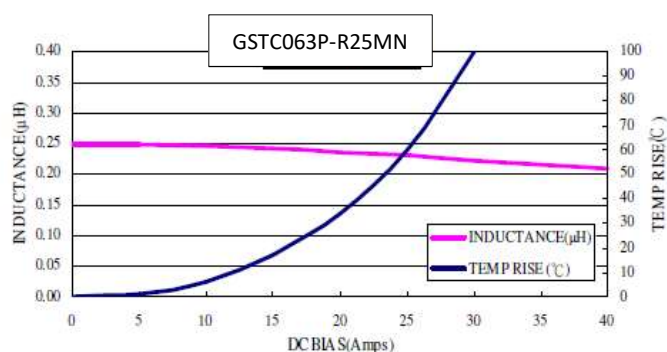
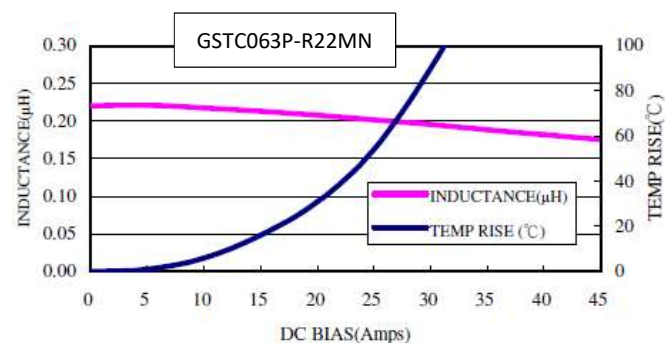


Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

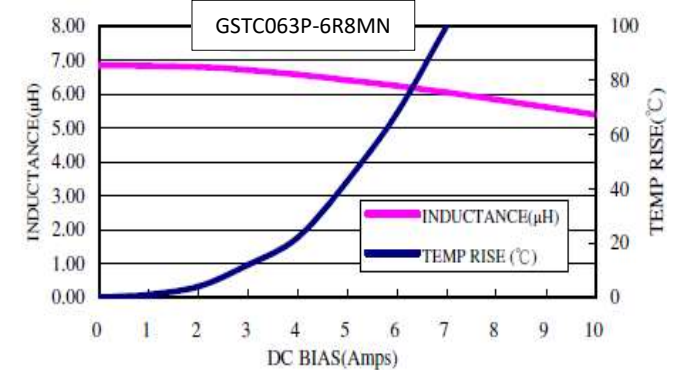
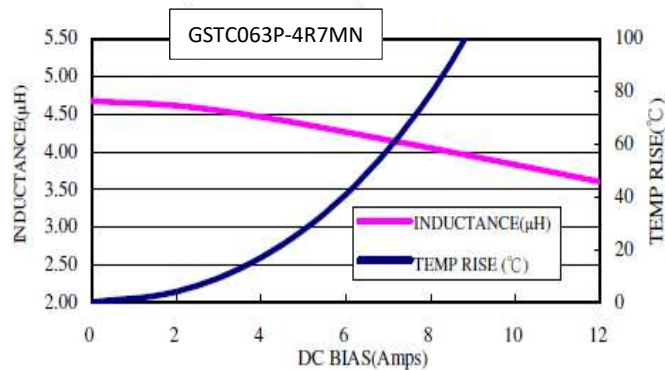
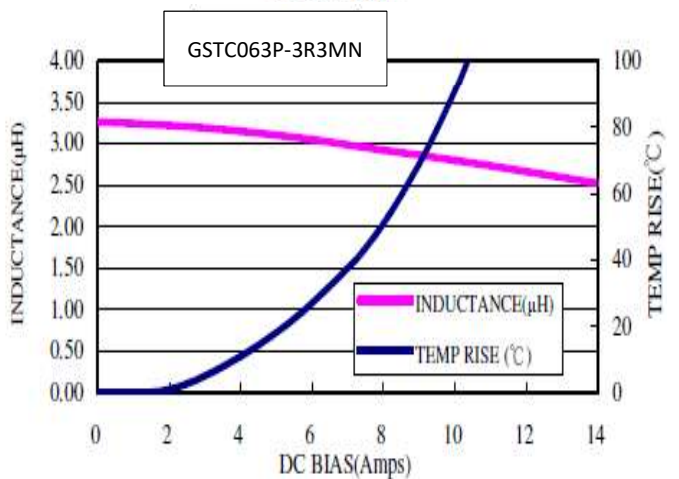
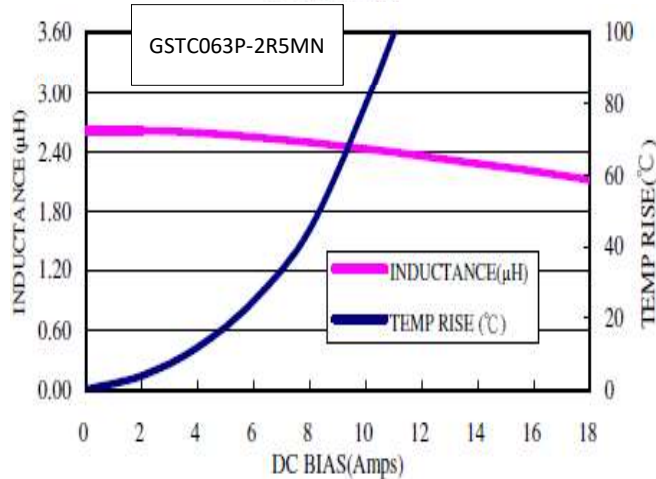
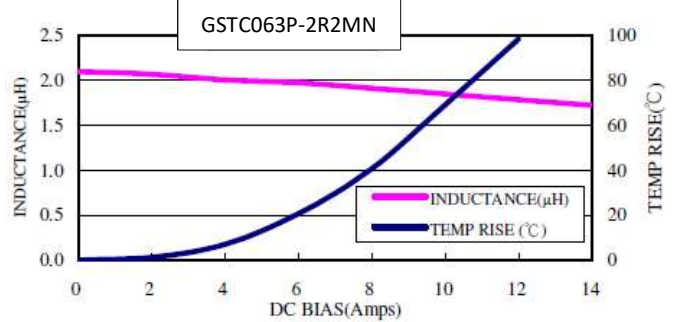
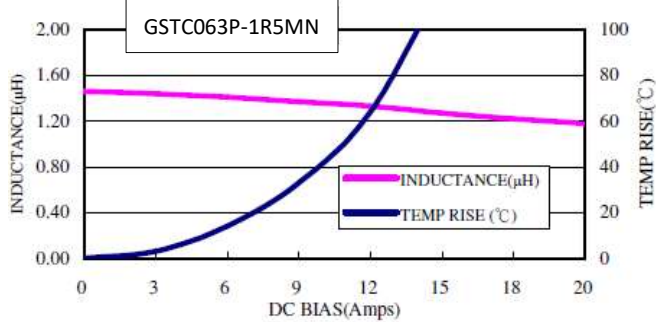
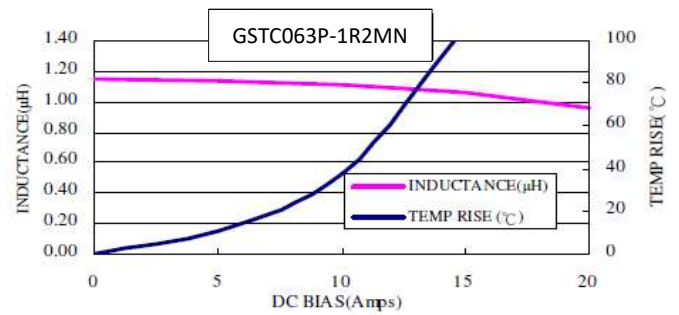
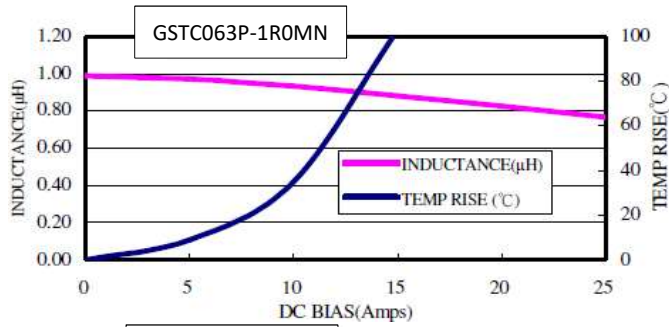
GSTC063P-SERIES

Current Characteristic :



GSTC063P-SERIES

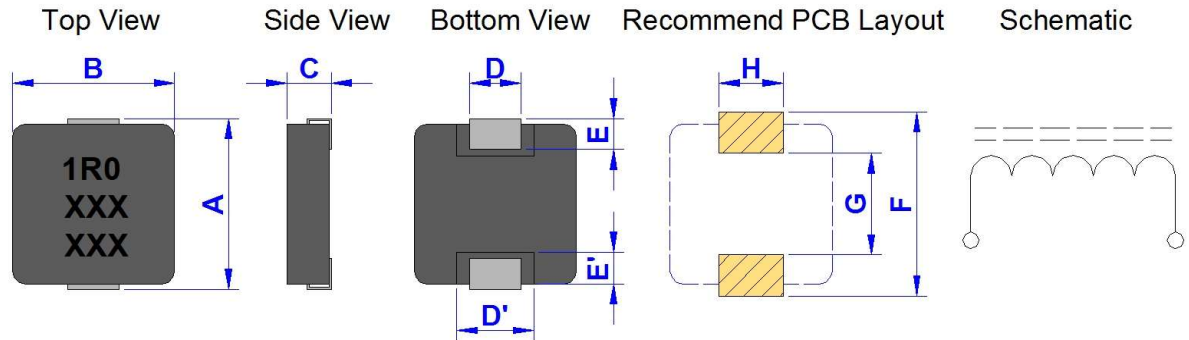
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC064P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
064	7.60	6.80	4.00	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm)	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC064P-R15ME	0.15	0.66+/- 7%	45.0	36.0
GSTC064P-R22ME	0.22	0.98 +/- 5%	35.0	34.0

* **Test Condition:** @100KHz, 1.0Vrms, 25 deg.C Ambient

* **Isat:** Saturated Current measured at the point of L drop approximately 30%

* **Irms:** Rated Current Loading when temperature rise approximately 40 deg.C

* **The parts final operating temperature (Ambient+The parts temperature rise):** should not exceed 125 deg.C if under worst case of operating conditions.

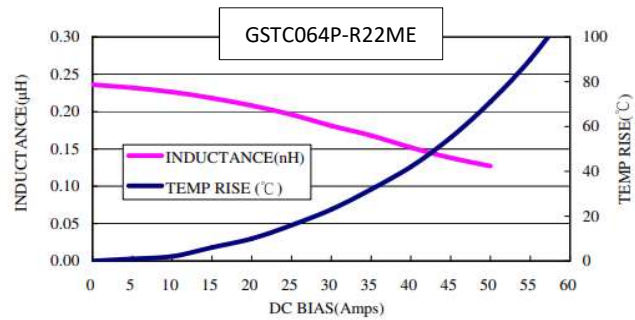
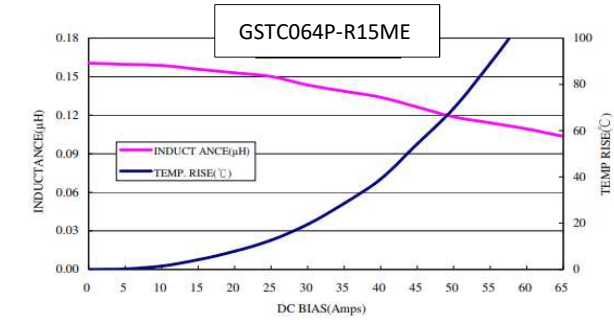
Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

* **All test data:** is referenced to 25 deg.C Ambient.

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC064P-SERIES

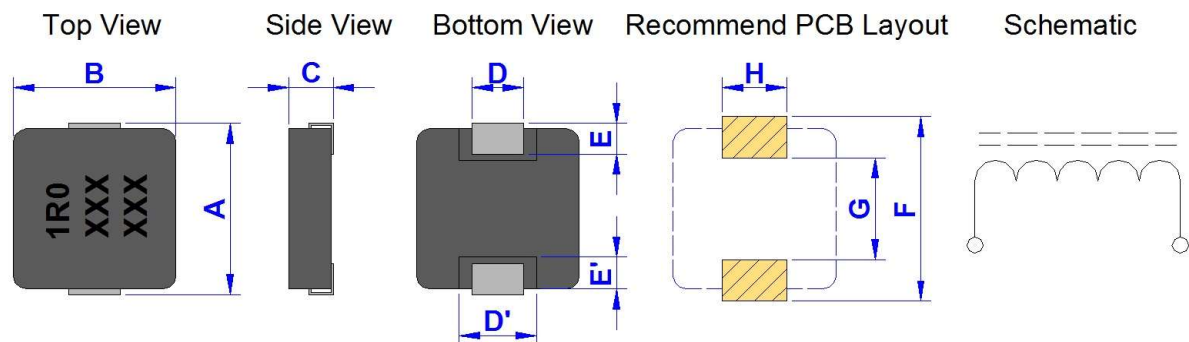
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC104P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D(+/-0.5)	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
104	11.50	10.30	4.00	3.00	5.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	13.60	5.40	4.10				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTC104P-R15MN	0.15	0.50 / 0.65	75.0	40.0
GSTC104P-R19MN	0.19	0.70 / 0.80	60.0	38.0
GSTC104P-R22MN	0.22	0.90 / 1.00	60.0	35.0
GSTC104P-R36MN	0.36	1.05 / 1.20	60.0	30.0
GSTC104P-R39MN	0.39	1.10 / 1.30	60.0	30.0
GSTC104P-R41MN	0.41	1.10 / 1.30	60.0	30.0
GSTC104P-R45MN	0.45	1.10 / 1.30	45.0	29.0
GSTC104P-R47MN	0.47	1.60 / 1.80	40.0	26.0
GSTC104P-R56MN	0.56	1.60 / 1.80	33.0	25.0
GSTC104P-R68MN	0.68	2.40 / 2.70	39.0	22.0
GSTC104P-R88MN	0.88	2.70 / 3.00	38.0	20.0
GSTC104P-1R0MN	1.00	3.00 / 3.30	36.0	18.0
GSTC104P-1R5MN	1.50	3.80 / 4.20	33.0	16.0
GSTC104P-2R2MN	2.20	6.70 / 7.00	27.0	12.0
GSTC104P-4R7MN	4.70	15.00 / 16.50	17.0	9.5
GSTC104P-3R3MS	3.30	10.80 / 11.80	16.0	10.0

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

* **Isat:** Saturated Current measured at the point of L drop approximately 20% [N TYPE]

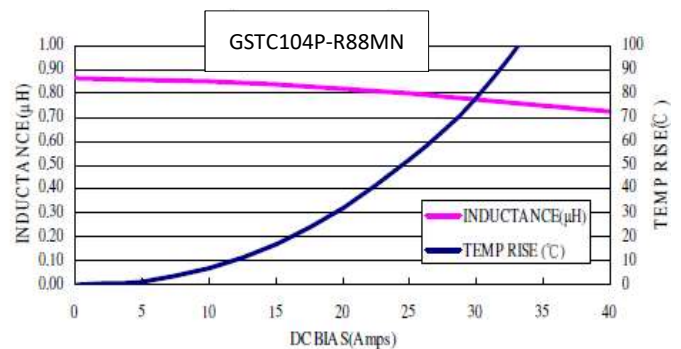
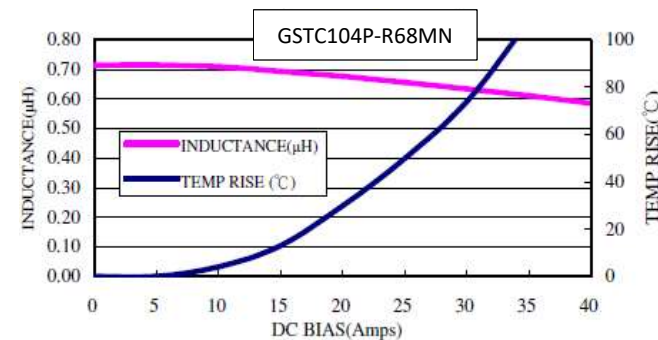
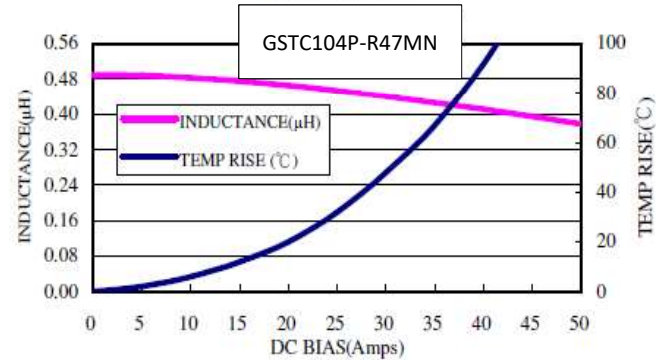
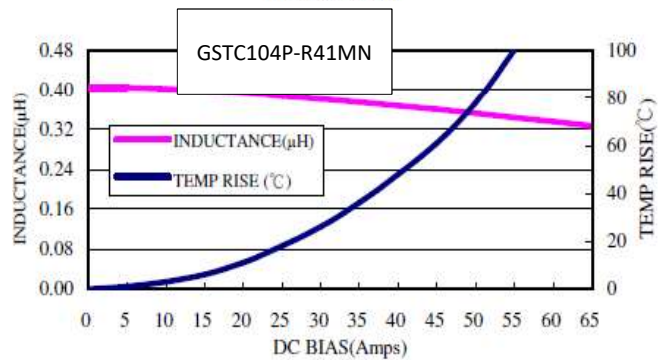
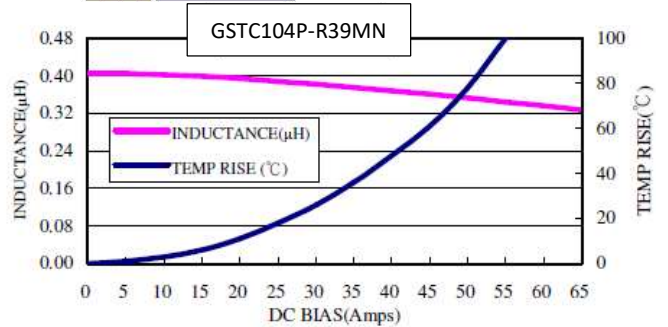
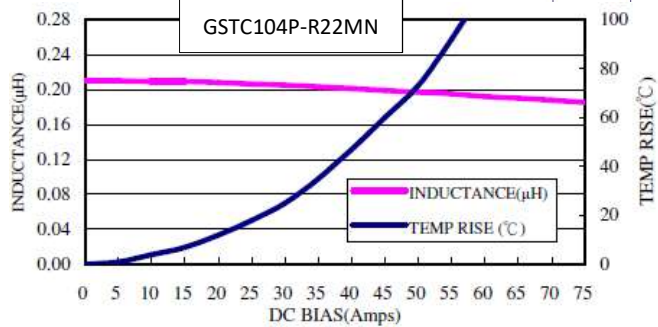
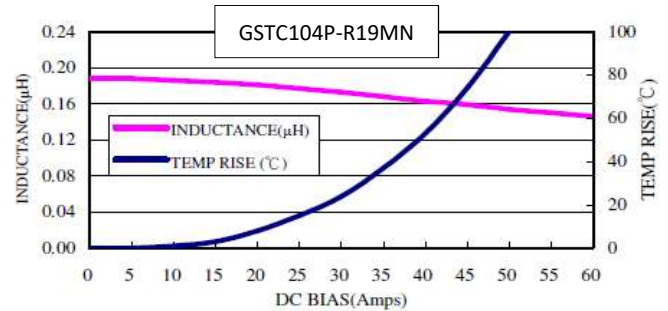
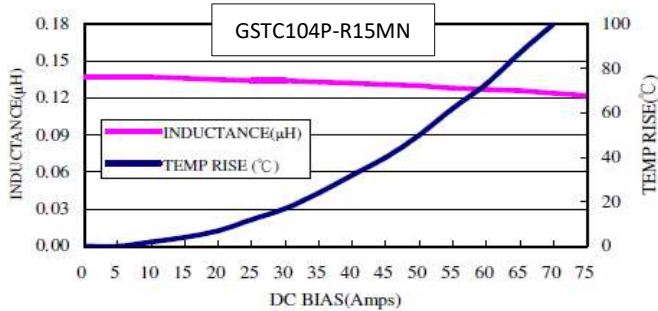
* **Isat:** Saturated Current measured at the point of L drop approximately 30% [S TYPE]

* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC104P-SERIES

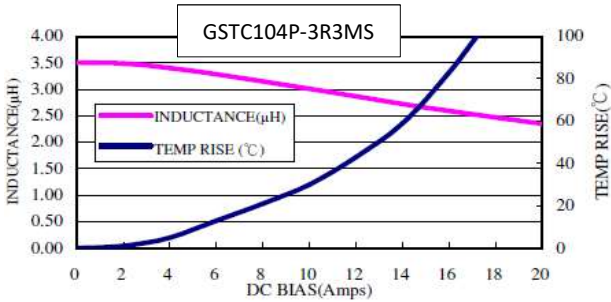
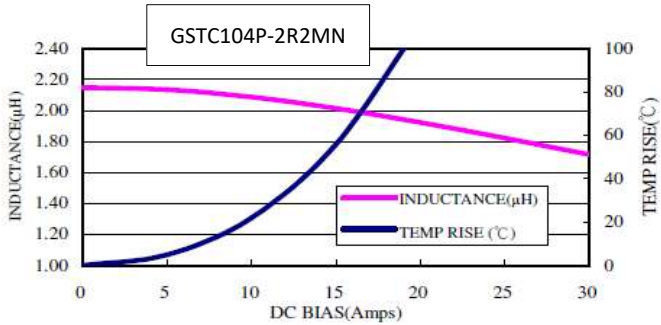
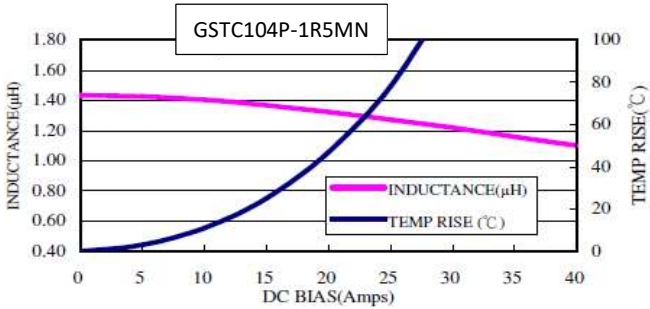
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC104P-SERIES

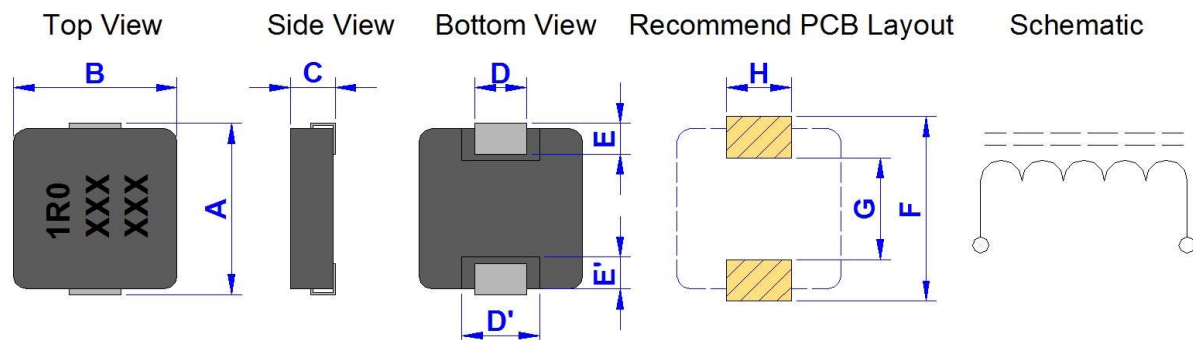
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC133P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
133	13.80	12.80	3.50	BY ITEM	6.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	14.50	8.50	5.00				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.	Size D (+/-0.5)
GSTC133P-R22MF	0.22	1.10 / 1.30	65.0	38.0	4.0
GSTC133P-R33MF	0.33	1.30 / 1.50	62.0	36.5	4.0
GSTC133P-R39MF	0.39	1.10 / 1.30	65.0	38.0	4.0
GSTC133P-R47MF	0.47	1.70 / 2.00	55.0	32.0	4.0
GSTC133P-R56MF	0.56	1.80 / 2.20	51.0	29.0	4.0
GSTC133P-R62MF	0.62	1.80 / 2.20	51.0	29.0	4.0
GSTC133P-R68MF	0.68	2.30 / 2.50	49.0	28.0	4.0
GSTC133P-1R0MF	1.00	3.30 / 3.50	40.0	24.0	3.0
GSTC133P-1R5MF	1.50	5.10 / 5.50	35.0	19.0	3.0
GSTC133P-2R2MF	2.20	7.20 / 8.00	29.0	16.0	3.0
GSTC133P-3R3MF	3.30	10.00 / 12.00	27.0	12.0	3.0
GSTC133P-4R7MF	4.70	16.00 / 18.00	22.0	9.0	3.0

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

* **Isat:** Saturated Current measured at the point of L drop approximately 20%

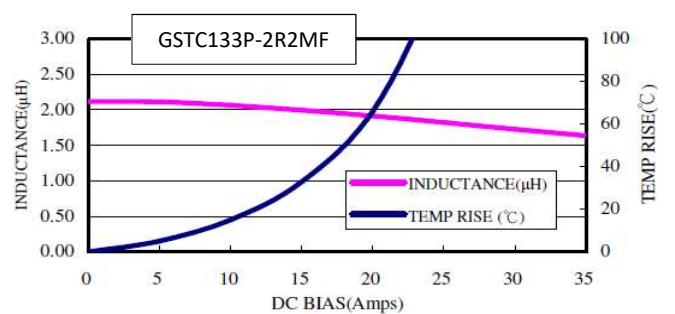
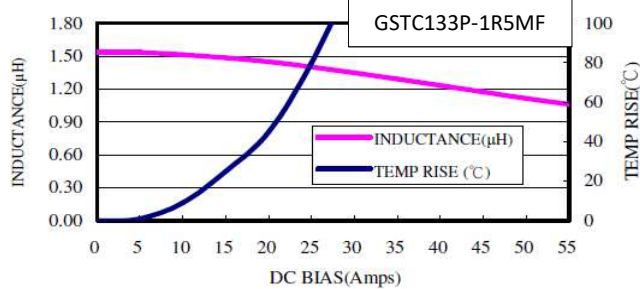
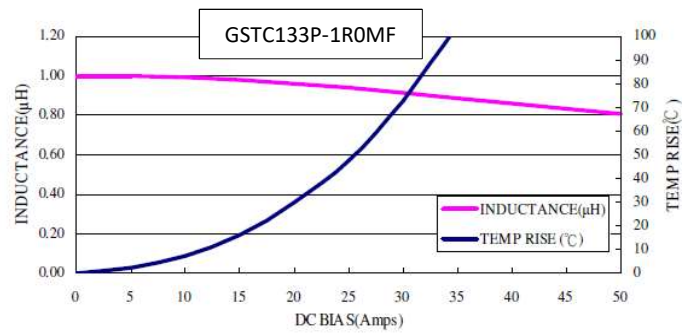
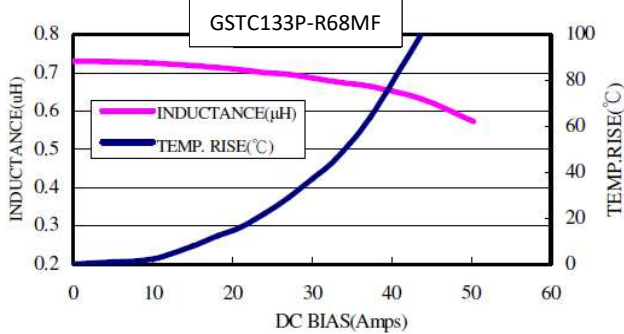
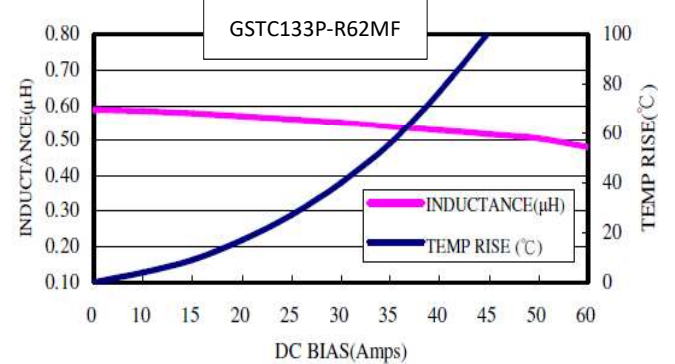
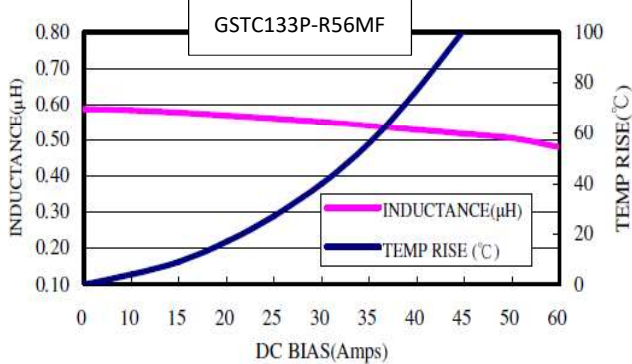
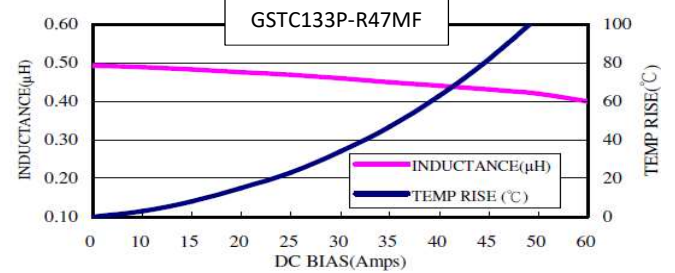
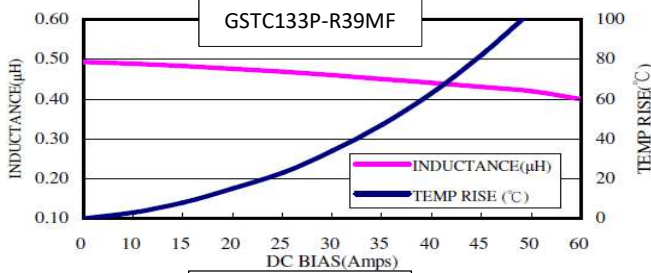
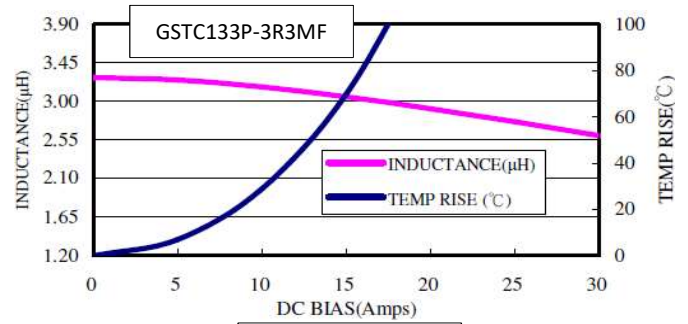
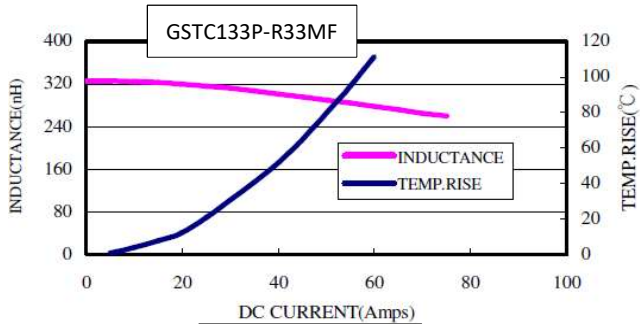
* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC133P-SERIES

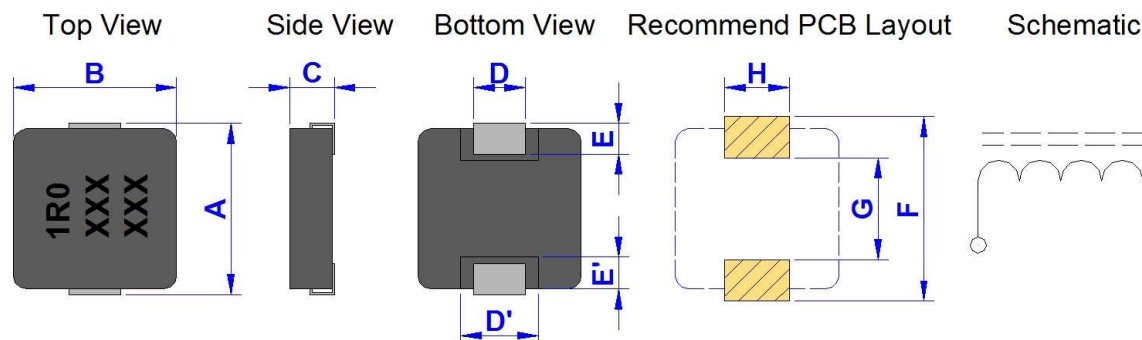
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC135P-SERIES

Dimension [mm] :



Size	A(Max.)	B(Max.)	C(Max.)	D	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
135	14.00	12.80	5.20	BY ITEM	6.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	14.50	8.00	5.00				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Isat (Amp) Typ.	Irms (Amp) Typ.	Size D (+/-0.5)
GSTC135P-R15MF	0.15	0.55 / 0.70	110.0	45.0	4.0
GSTC135P-R36MF	0.36	0.77 / 1.10	75.0	41.0	4.0
GSTC135P-R47MF	0.47	1.10 / 1.30	65.0	38.0	4.0
GSTC135P-R50MF	0.50	1.20 / 1.50	55.0	36.0	4.0
GSTC135P-R56MF	0.56	1.20 / 1.50	55.0	36.0	4.0
GSTC135P-R62MF	0.62	1.50 / 1.70	54.0	34.0	4.0
GSTC135P-R68MF	0.68	1.50 / 1.70	54.0	34.0	4.0
GSTC135P-R82MF	0.82	1.80 / 2.10	53.0	31.0	4.0
GSTC135P-1R0MF	1.00	2.10 / 2.50	50.0	29.0	4.0
GSTC135P-1R2MF	1.20	2.60 / 3.00	49.0	25.0	4.0
GSTC135P-1R5MF	1.50	3.40 / 4.10	48.0	23.0	4.0
GSTC135P-2R2MF	2.20	4.60 / 5.50	32.0	20.0	3.0
GSTC135P-3R3MF	3.30	7.70 / 9.20	32.0	15.0	3.0
GSTC135P-4R7MF	4.70	12.80 / 15.00	27.0	12.0	3.0
GSTC135P-6R3MF	6.30	15.40 / 18.50	21.0	11.0	3.0
GSTC135P-6R8MF	6.80	15.40 / 18.50	21.0	11.0	3.0

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

* **Isat:** Saturated Current measured at the point of L drop approximately 20%

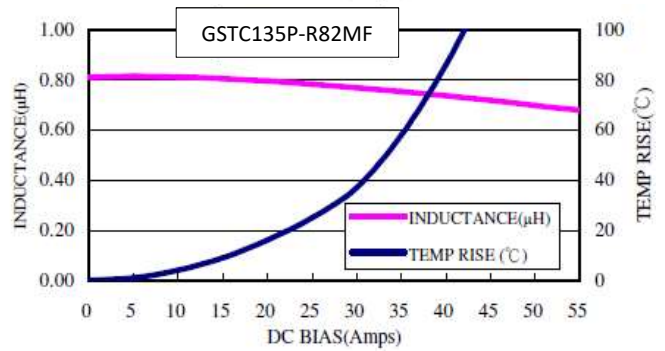
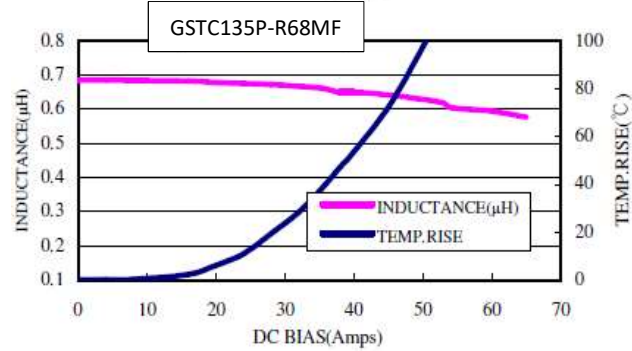
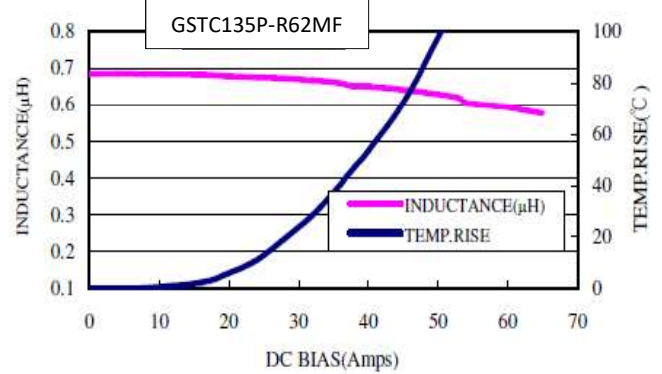
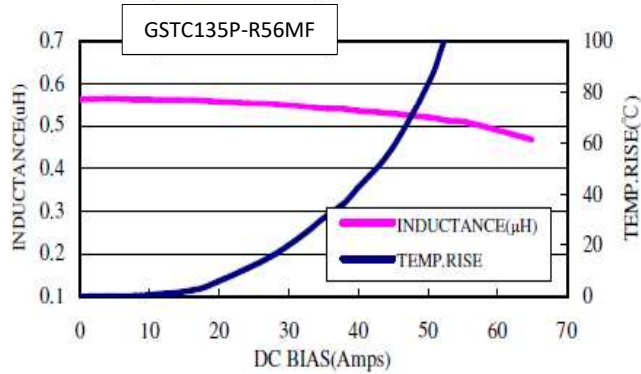
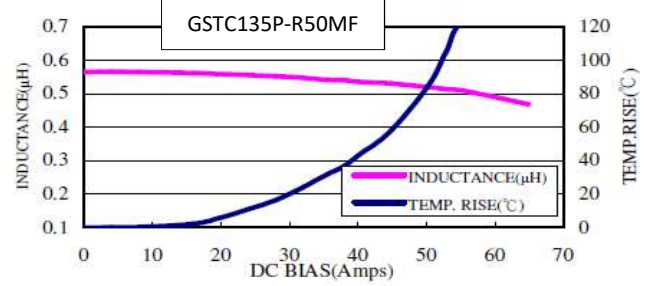
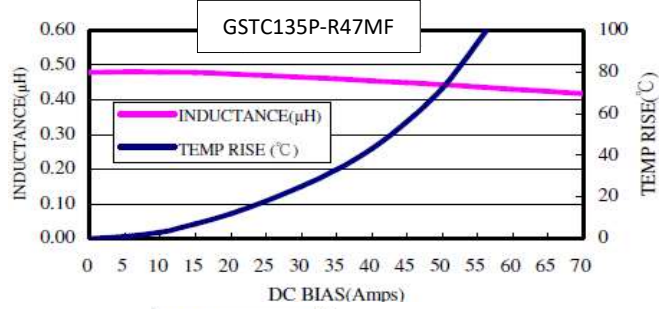
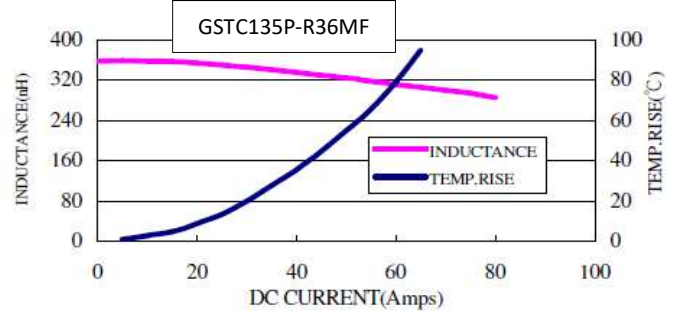
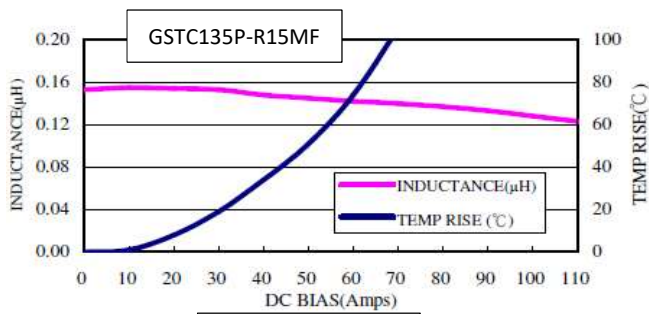
* **Irms:** Rated Current Loading when temperature rise approximately 40deg.C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC135P-SERIES

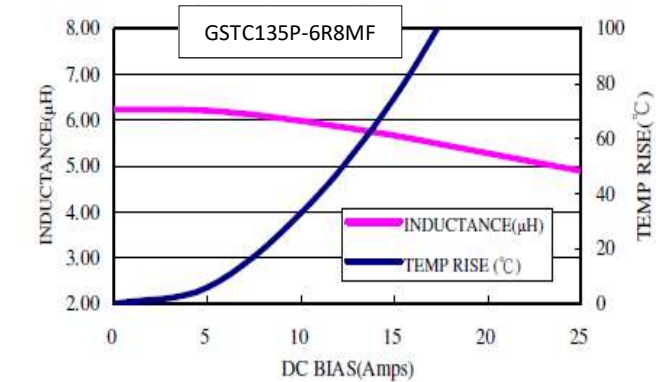
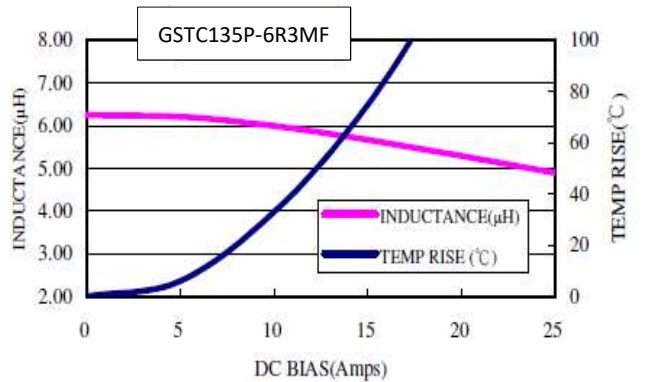
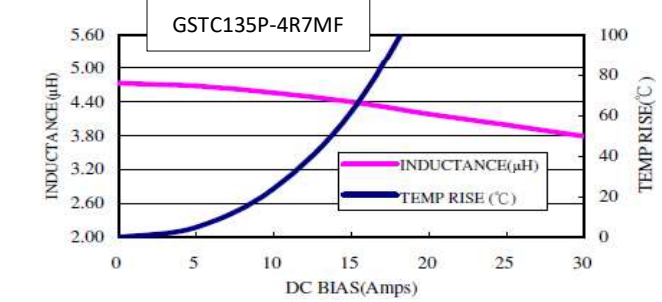
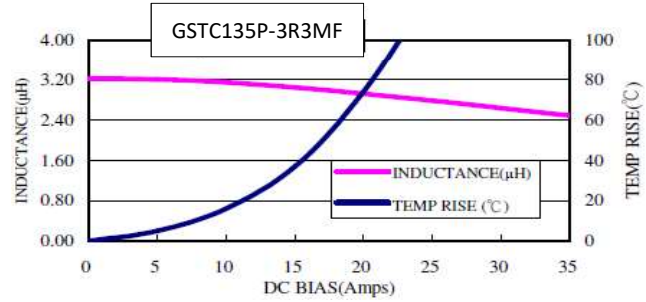
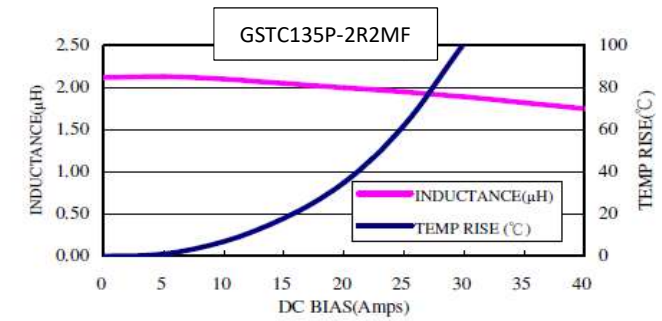
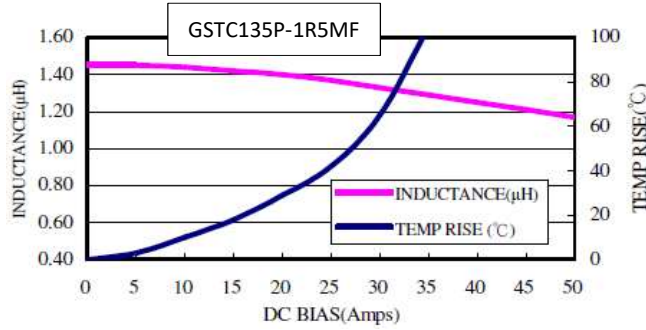
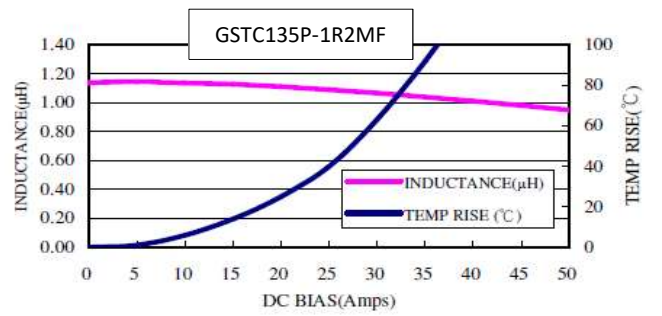
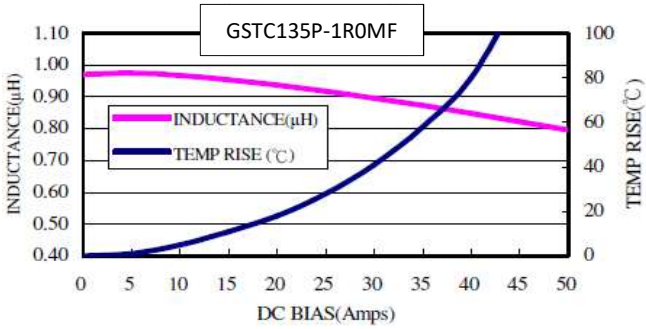
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC135P-SERIES

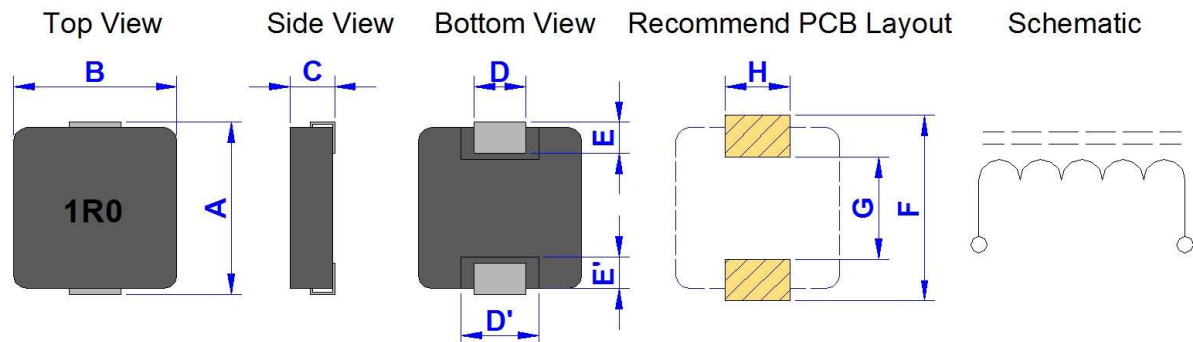
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC4020PT-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.25)	C(±0.20)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
4020PT	4.40	4.20	1.80	2.00	2.50	0.80	1.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	5.20	2.20	2.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]
GSTC4020PT-R10M	0.10	3.30 / 3.80	12.30 / 11.00	23.00 / 20.00
GSTC4020PT-R22M	0.22	6.00/6.60	9.00/8.00	15.00/13.00
GSTC4020PT-R33M	0.33	8.50/10.00	8.00/7.00	12.00/10.00
GSTC4020PT-R47M	0.47	12.50/14.00	7.00/6.00	11.00/9.50
GSTC4020PT-R68M	0.68	15.90/18.00	6.00/5.40	9.20/7.50
GSTC4020PT-1R0M	1.00	23.00/27.00	4.50/4.00	7.50/6.00
GSTC4020PT-1R5M	1.50	37.00/46.00	4.10/3.70	6.20/5.40
GSTC4020PT-2R2M	2.20	51.00/58.00	3.50/3.20	5.20/4.40
GSTC4020PT-3R3M	3.30	74.00/87.00	3.00/2.70	4.50/3.90
GSTC4020PT-4R7M	4.70	91.00/105.00	2.80/2.40	4.10/3.20

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

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

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

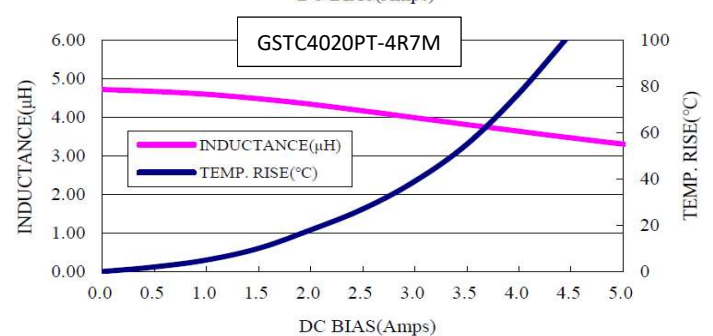
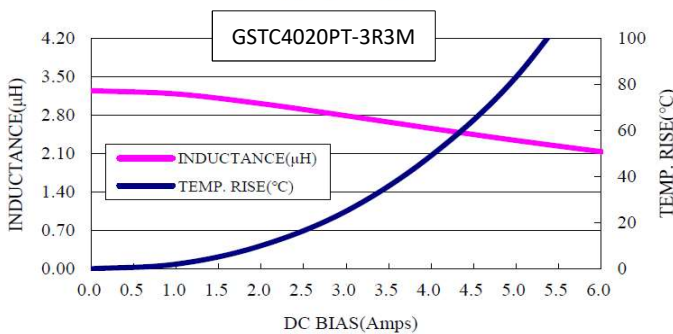
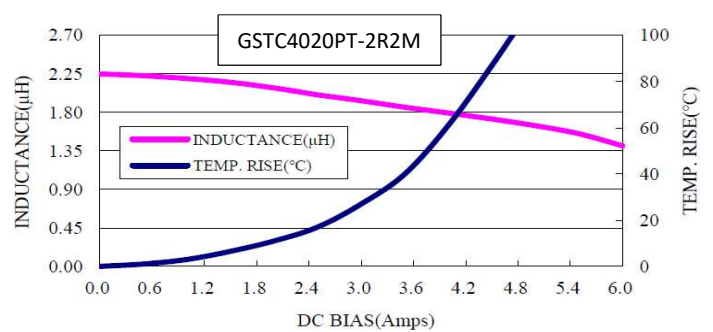
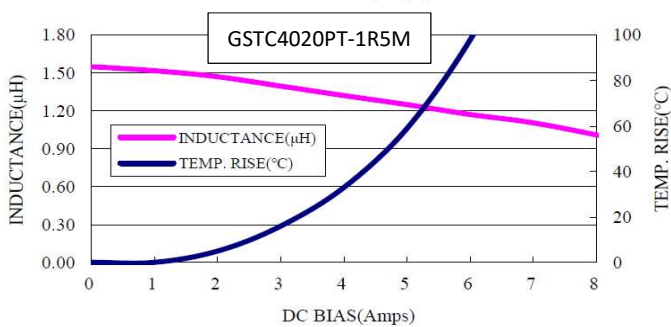
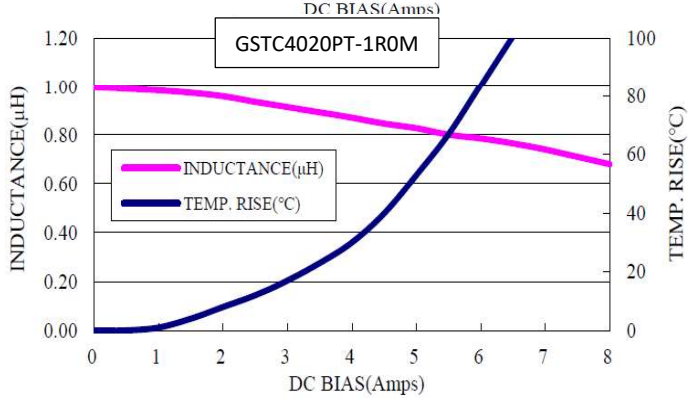
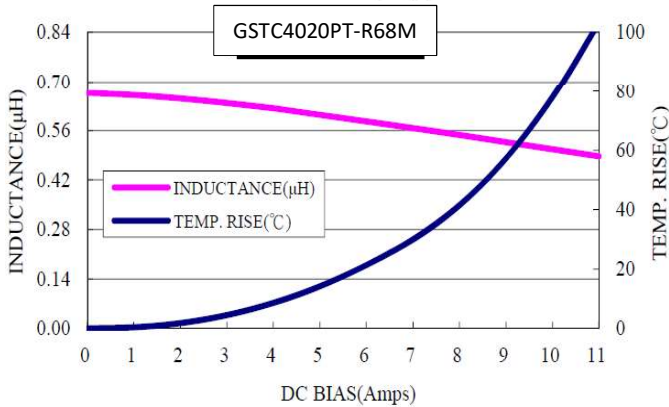
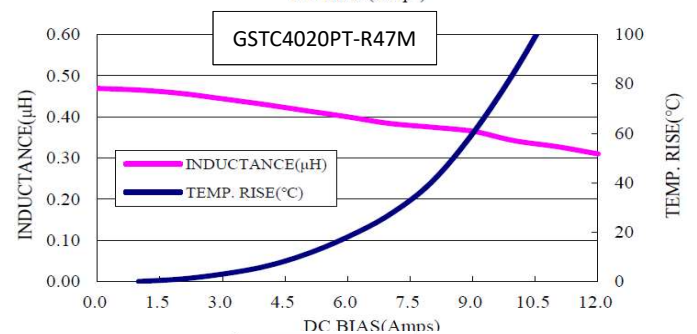
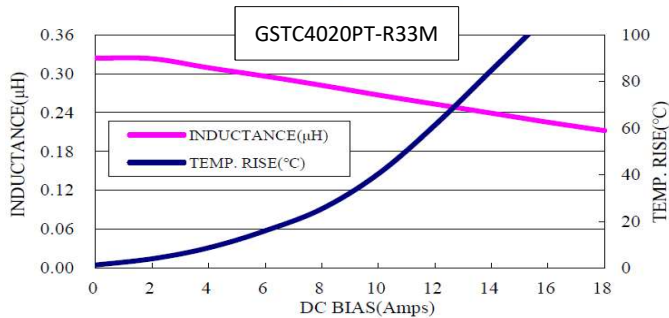
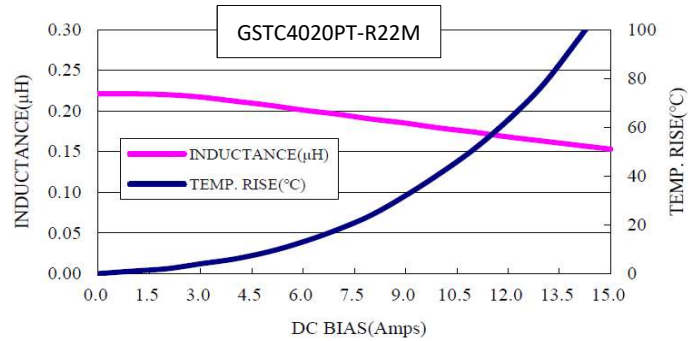
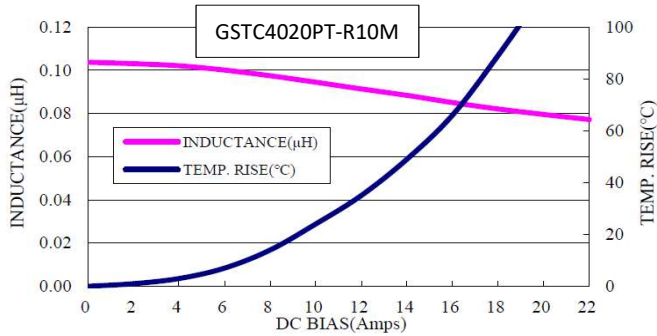
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC4020PT-SERIES

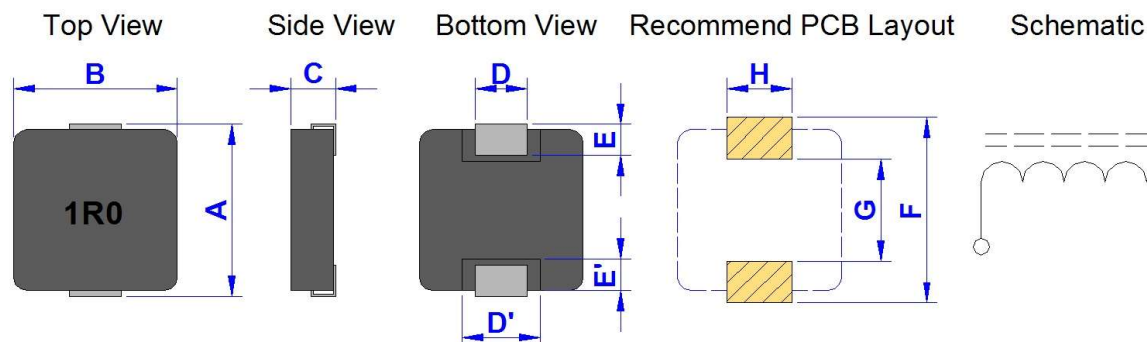
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC5018PH-SERIES

Dimension [mm] :



Size	A(± 0.35)	B(± 0.20)	C(± 0.20)	D(± 0.3)	D'(± 0.2)	E(± 0.3)	E'(± 0.1)
5018PH	5.40	5.20	1.60	2.00	2.50	1.00	1.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	5.99	2.20	2.50				

Electrical Characteristics :

Part No.	Inductance L(μ H) $\pm$ 20%	DCR (m Ohm) [Typ.] / [Max.]	I _{dc} (Amp) [Typ.] / [Max.]	I _{sat} (Amp) [Typ.] / [Max.]
GSTC5018PH-R33M	0.33	5.70/6.80	16.00/15.00	19.10/17.10
GSTC5018PH-R47M	0.47	7.60/8.50	11.00/10.00	16.00/15.50
GSTC5018PH-R68M	0.68	12.00/13.80	9.00/8.00	13.00/11.20
GSTC5018PH-1R0M	1.00	15.00/18.00	8.50/7.50	10.00/8.60
GSTC5018PH-1R5M	1.50	23.00/28.00	6.20/5.50	9.00/7.20
GSTC5018PH-2R2M	2.20	30.00/35.00	5.20/4.70	7.00/6.00
GSTC5018PH-3R3M	3.30	45.00/52.00	4.70/4.50	5.50/4.80
GSTC5018PH-4R7M	4.70	70.00/81.00	3.50/3.20	4.50/3.90
GSTC5018PH-6R8M	6.80	103.00/125.00	2.90/2.60	3.60/3.40
GSTC5018PH-100M	10.00	139.00/154.00	2.50/2.30	3.30/2.80

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

* **I_{dc}** : DC current (A) that will cause an approximate ΔT of 40°C

* **I_{sat}** : DC current (A) that will cause L0 to drop approximately 30%

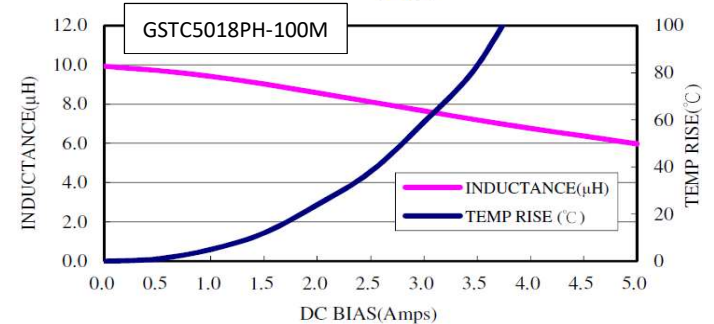
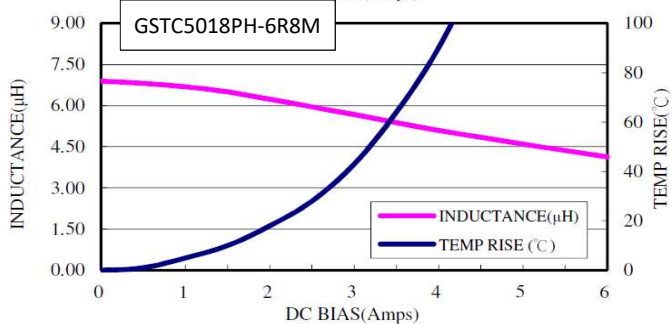
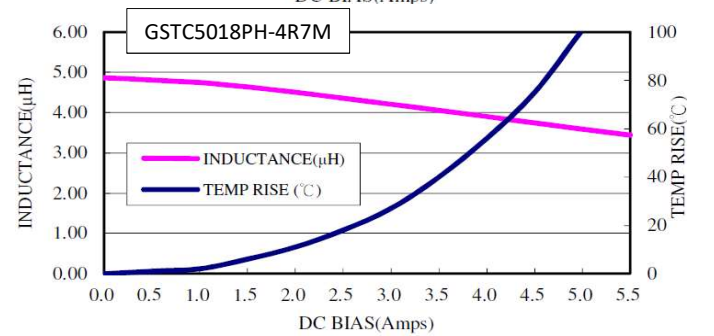
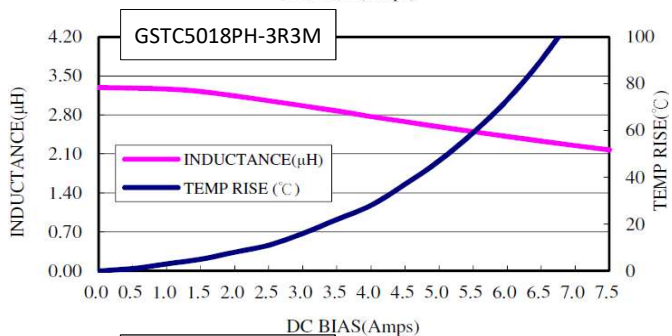
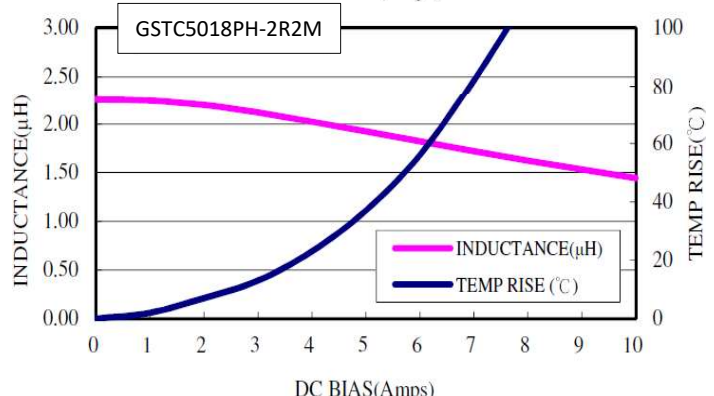
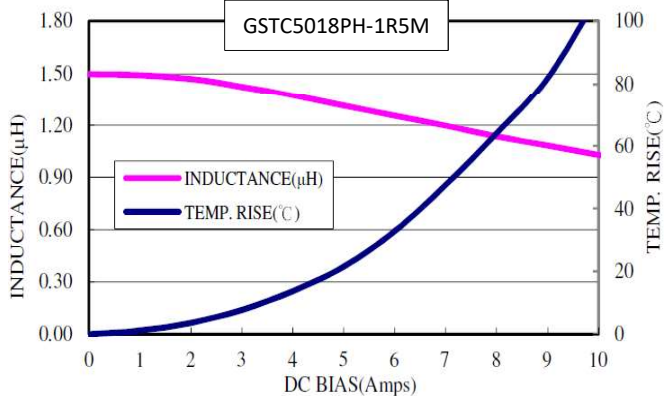
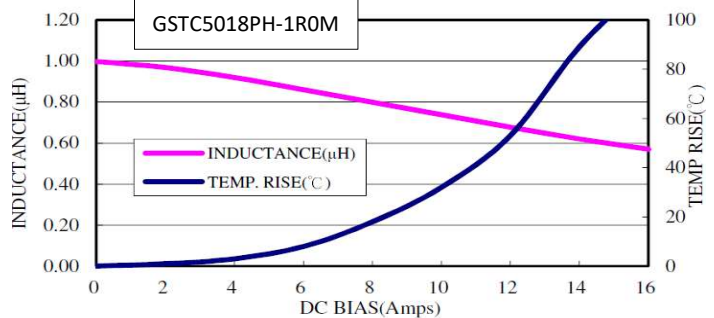
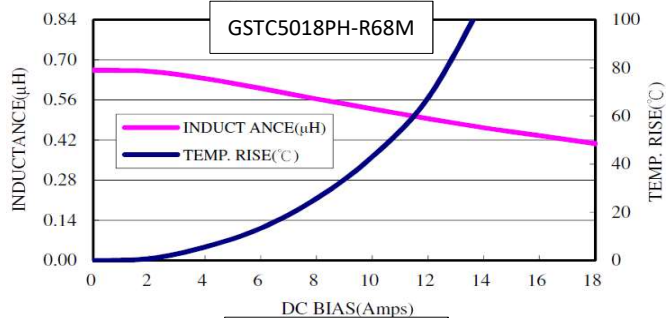
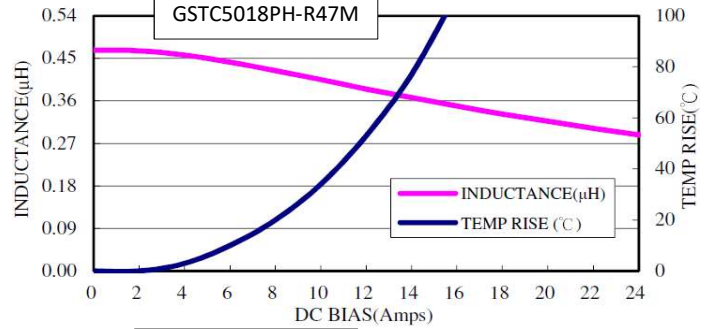
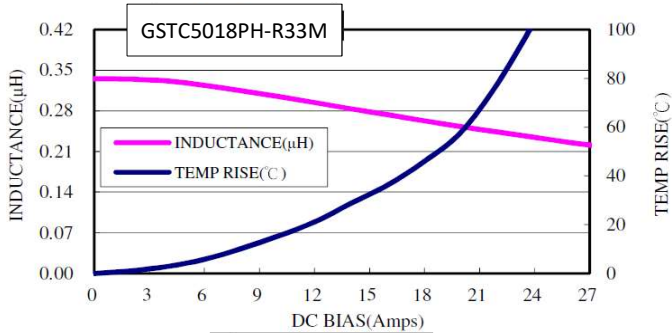
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC5018PH-SERIES

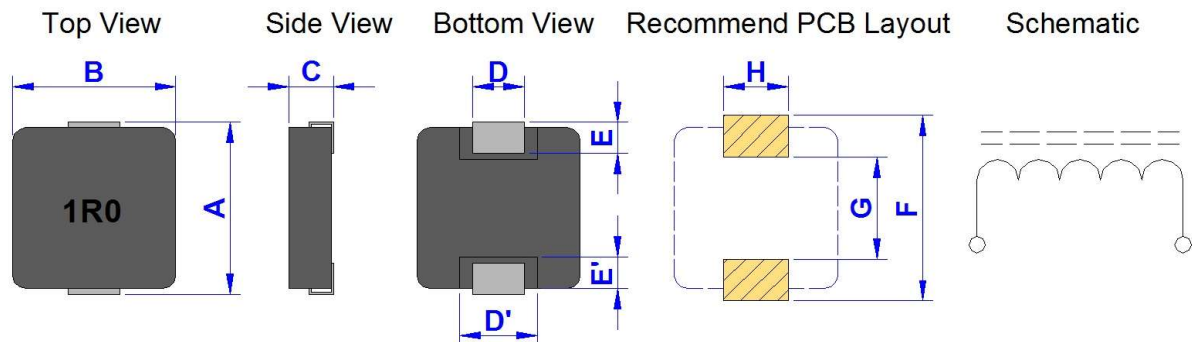
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6015PE-SERIES

Dimension [mm] :



Size	A(± 0.381)	B(± 0.254)	C(± 0.20)	D(± 0.3)	D'(± 0.2)	E(± 0.3)	E'(± 0.1)
6015PE	6.86	6.47	1.30	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

Part No.	Inductance L(μ H) $\pm$ 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]
GSTC6015PE-R12M	0.12	3.00/3.65	19.00/17.00	29.00/25.00
GSTC6015PE-R15M	0.15	3.50/4.10	18.00/16.00	25.00/22.00
GSTC6015PE-R33M	0.33	5.60/6.50	13.50/12.00	21.00/19.00
GSTC6015PE-R47M	0.47	7.20/8.50	13.00/11.00	18.00/15.50
GSTC6015PE-R56M	0.56	9.50/11.00	10.00/9.00	15.00/14.00
GSTC6015PE-R82M	0.82	15.00/17.00	9.00/8.50	13.00/11.00
GSTC6015PE-1R0M	1.00	18.50/21.00	8.20/7.60	12.00/10.00
GSTC6015PE-1R2M	1.20	21.00/25.00	7.50/7.00	10.50/8.50
GSTC6015PE-1R5M	1.50	25.00/28.00	7.20/6.70	8.50/7.70
GSTC6015PE-2R2M	2.20	35.00/42.00	6.00/5.10	7.20/6.10
GSTC6015PE-3R3M	3.30	54.00/63.00	3.80/3.30	6.00/5.20
GSTC6015PE-4R7M	4.70	75.00/84.00	3.50/3.00	5.00/4.50
GSTC6015PE-6R8M	6.80	11.00/130.0	3.00/2.50	4.50/4.00
GSTC6015PE-100M	10.00	165.00/175.00	2.20/2.00	3.50/3.00

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

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

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

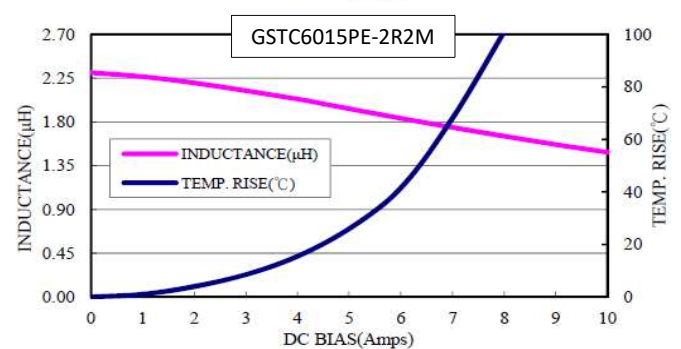
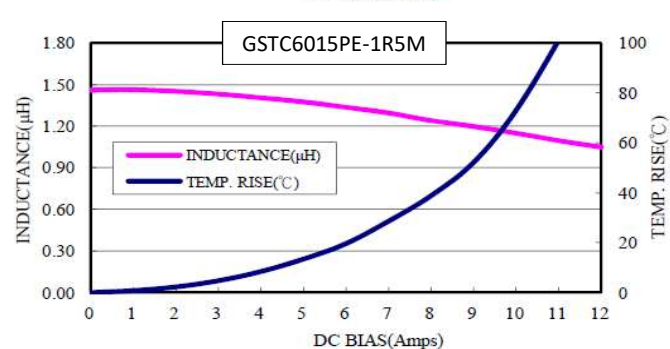
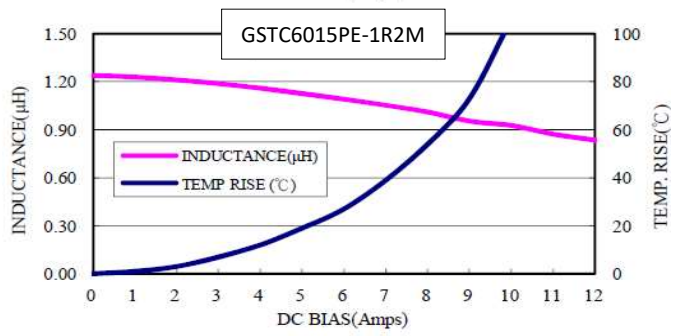
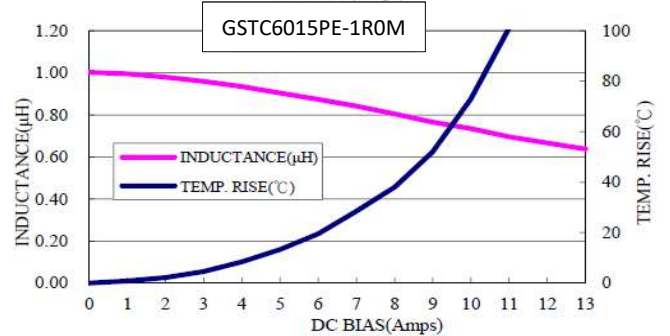
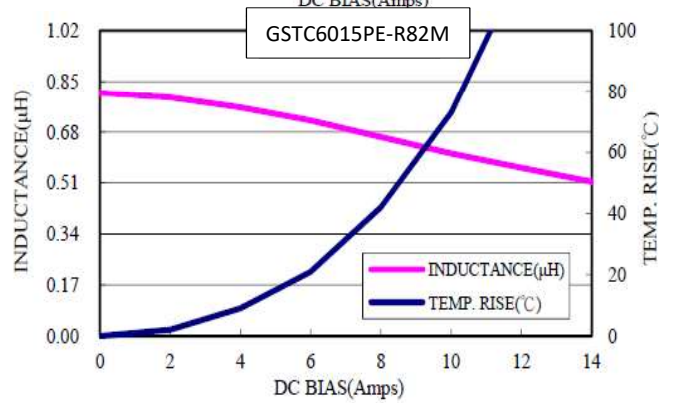
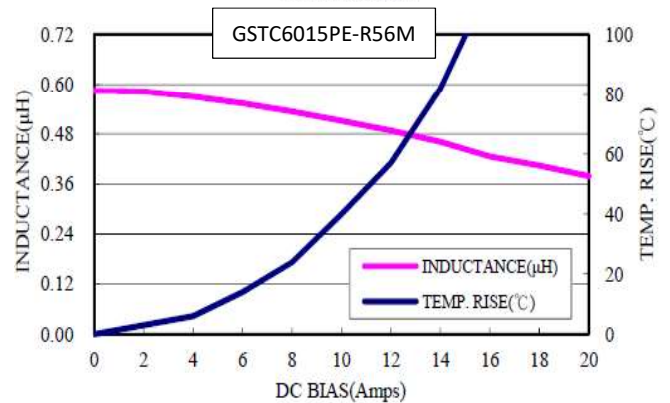
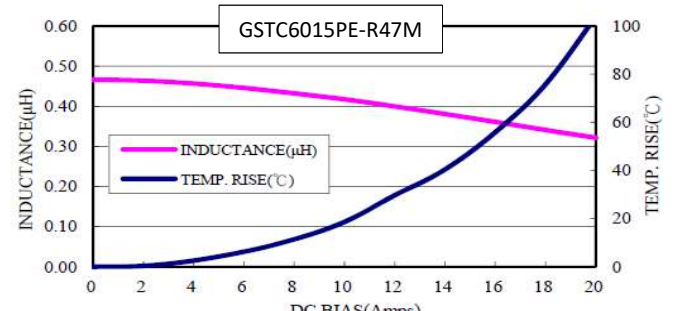
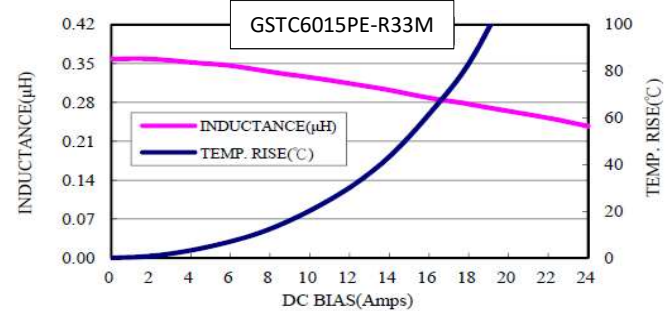
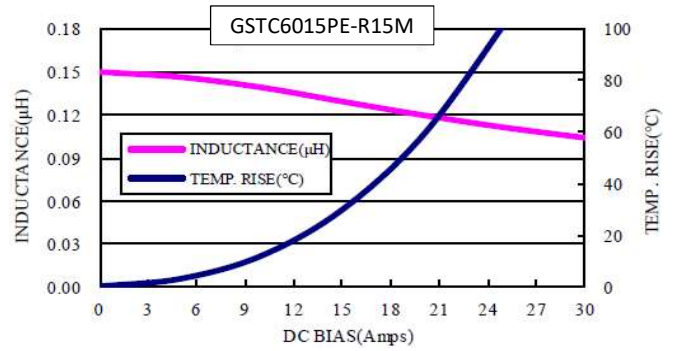
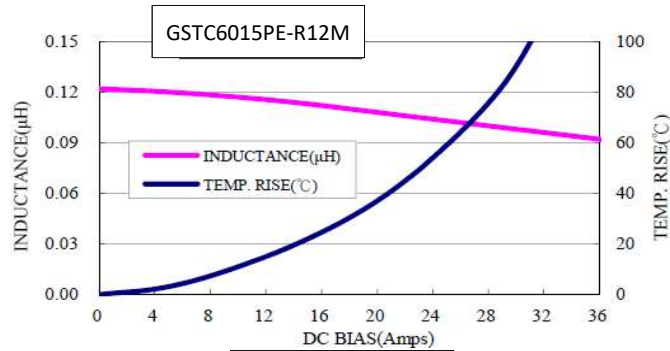
* **Operating Temperature Range** : -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC6015PE-SERIES

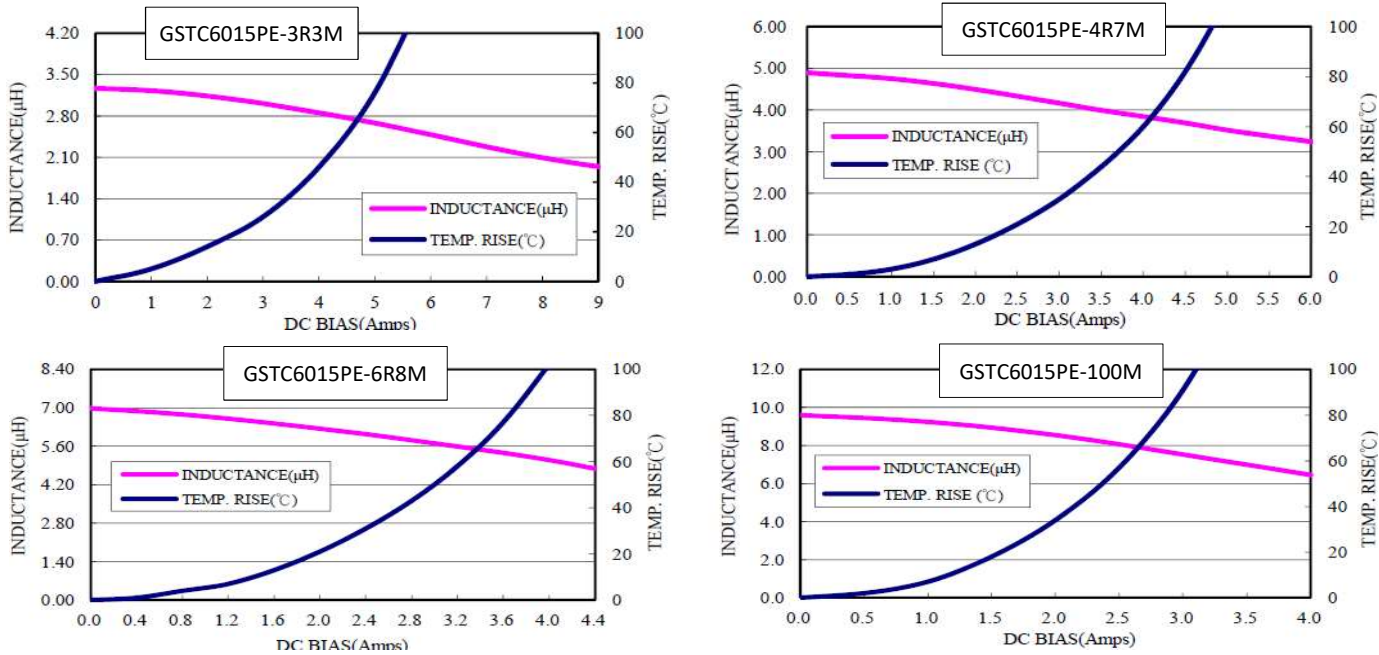
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6015PE-SERIES

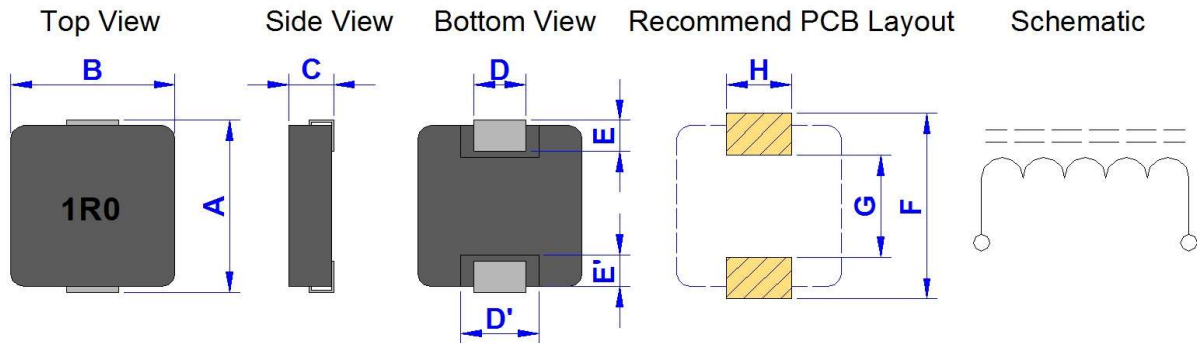
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6018PH-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.20)	C(±0.20)	D(+/-0.3)	D'(±/-0.2)	E(+/-0.3)	E'(±/-0.1)
6018PH	7.05	6.60	1.60	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]
GSTC6018PH-R22M	0.22	4.30/4.90	18.00/16.00	29.00/25.00
GSTC6018PH-R47M	0.47	7.10/8.20	12.50/11.50	19.00/16.00
GSTC6018PH-R68M	0.68	9.06/10.40	9.50/8.50	13.00/11.00
GSTC6018PH-1R5M	1.50	20.00/26.00	6.50/6.00	10.00/8.50
GSTC6018PH-2R2M	2.20	25.00/28.50	6.00/5.50	7.30/6.50
GSTC6018PH-4R7M	4.70	58.00/67.00	3.90/3.50	5.20/4.50
GSTC6018PH-6R8M	6.80	98.00/109.00	2.90/2.65	3.90/3.50
GSTC6018PH-100M	10.00	138.00/153.00	2.50/2.30	3.50/3.00

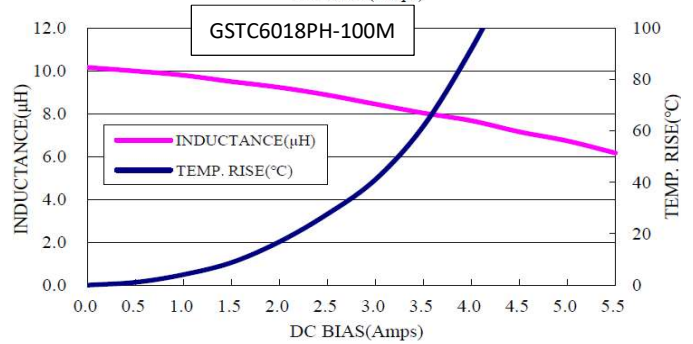
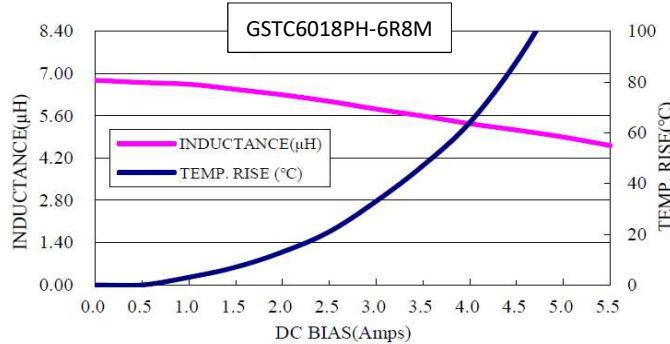
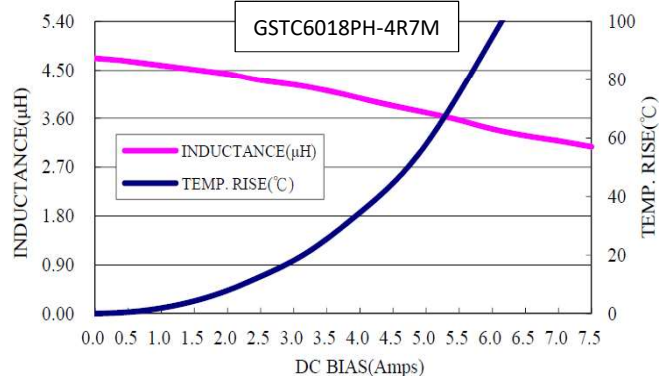
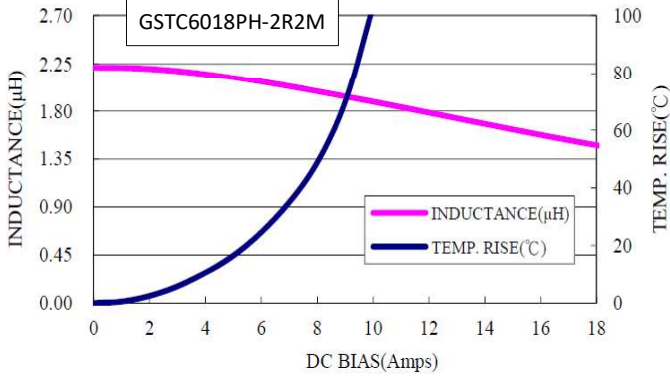
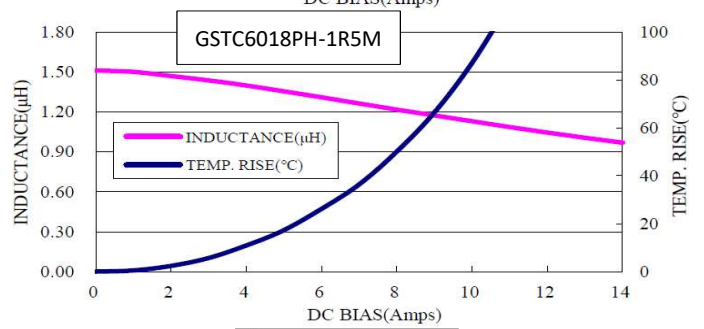
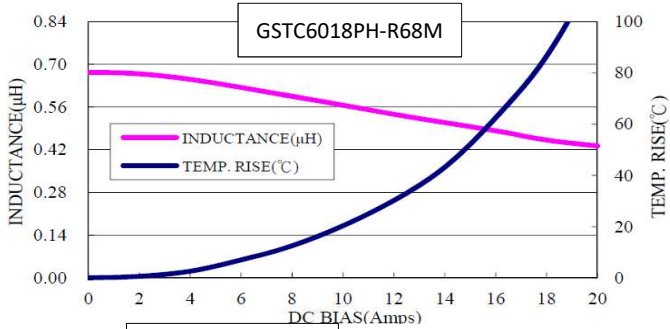
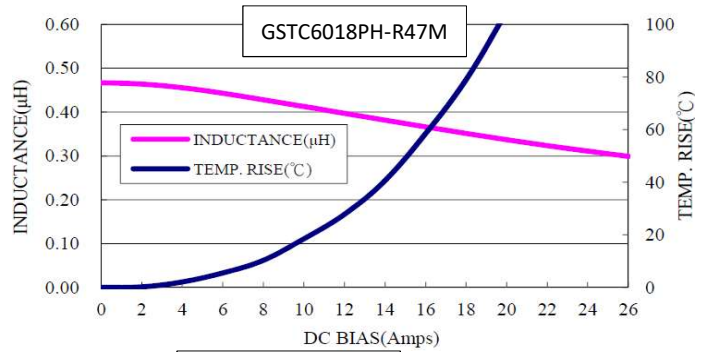
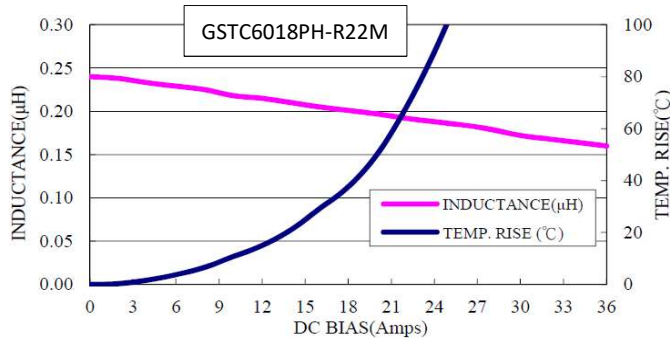
- * **Test Condition:** @100KHz, 1.0Vrms, 25°C Ambient
- * **Idc** : DC current (A) that will cause an approximate ΔT of 40°C
- * **Isat** : DC current (A) that will cause L0 to drop approximately 30%
- * **Operating Temperature Range** : -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC6018PH-SERIES

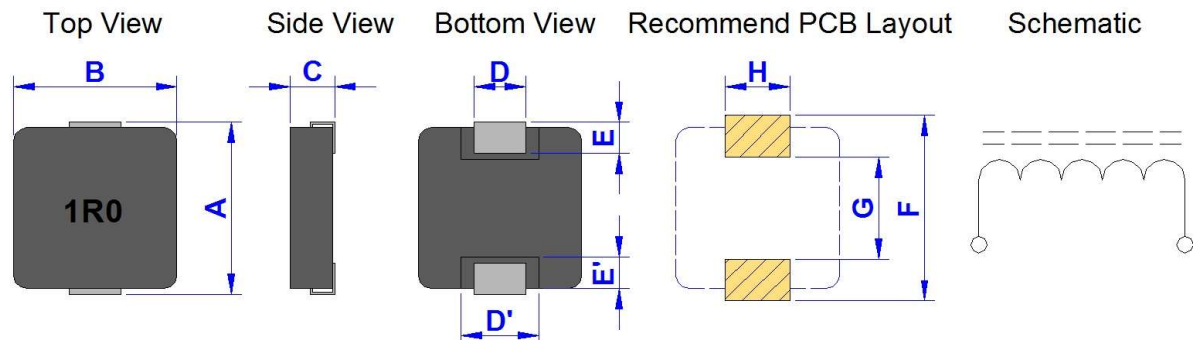
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6030PT-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.20)	C(±0.20)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
6030PT	6.95	6.60	2.80	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

Part No.	Inductance L(μH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]
GSTC6030PT-R10M	0.10	0.81/0.99	40.00/35.00	60.20/48.00
GSTC6030PT-R15M	0.15	1.80/2.40	30.00/25.00	41.00/35.00
GSTC6030PT-R20M	0.20	2.20/3.00	26.00/22.00	38.00/33.00
GSTC6030PT-R22M	0.22	2.30/3.00	25.00/21.00	35.00/32.00
GSTC6030PT-R33M	0.33	2.70/3.30	22.00/20.00	26.00/22.00
GSTC6030PT-R36M	0.36	3.20/3.80	20.00/18.00	24.50/22.00
GSTC6030PT-R47M	0.47	3.48/4.10	18.00/16.00	21.00/17.80
GSTC6030PT-R56M	0.56	3.88/4.50	16.50/15.00	20.00/16.00
GSTC6030PT-R68M	0.68	4.75/5.30	16.00/14.50	19.00/15.00
GSTC6030PT-R82M	0.82	5.38/6.00	14.00/13.00	17.00/14.00
GSTC6030PT-1R0M	1.00	6.60/7.25	13.00/11.20	16.50/13.50
GSTC6030PT-1R2M	1.20	7.70/8.60	11.70/10.10	14.50/12.50
GSTC6030PT-1R5M	1.50	9.10/10.50	10.00/9.50	14.20/12.00
GSTC6030PT-2R2M	2.20	13.40/15.00	8.50/8.00	12.50/10.50
GSTC6030PT-3R3M	3.30	17.90/22.00	7.20/6.20	9.60/8.50
GSTC6030PT-4R7M	4.70	27.90/33.00	6.00/5.50	6.55/5.50
GSTC6030PT-5R6M	5.60	39.00/42.00	5.70/5.00	6.35/5.05
GSTC6030PT-6R8M	6.80	42.00/48.00	4.70/4.20	6.30/5.00
GSTC6030PT-8R2M	8.20	53.90/60.00	4.50/3.80	6.05/4.92
GSTC6030PT-100M	10.00	60.00/68.00	4.00/3.50	5.60/4.90
GSTC6030PT-150M	15.00	132.50/150.00	2.70/2.40	3.80/3.30
GSTC6030PT-220M	22.00	179.50/200.00	2.30/2.00	3.10/2.50
GSTC6030PT-330M	33.00	274.00/284.00	2.10/1.80	2.30/2.00

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

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

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

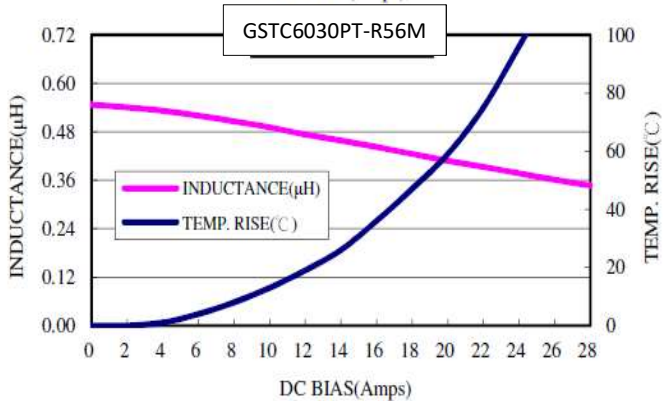
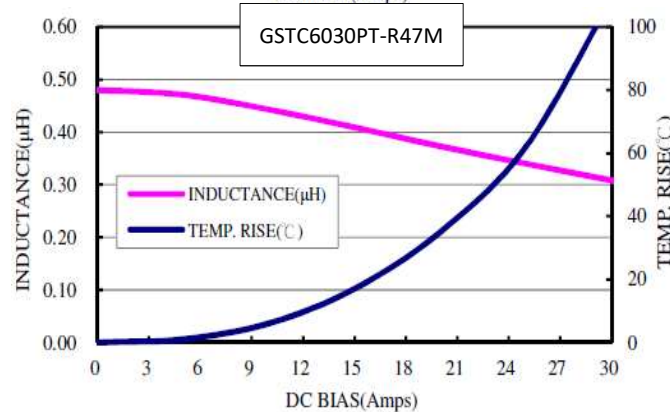
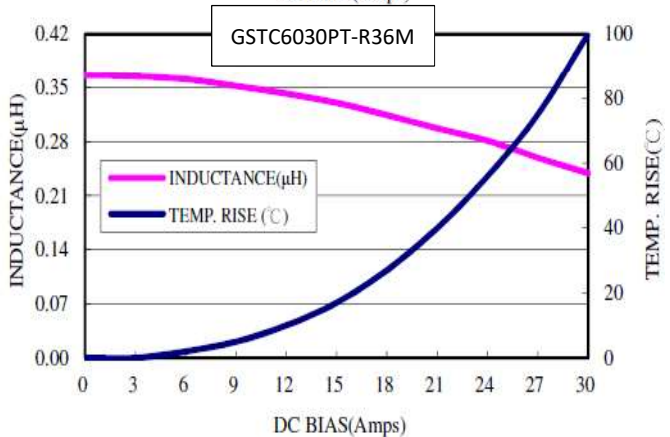
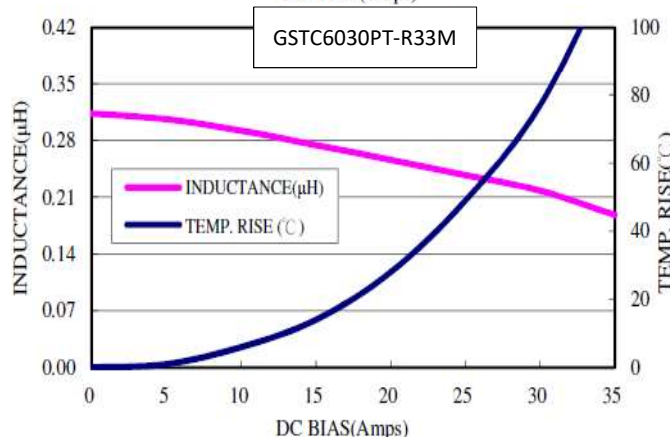
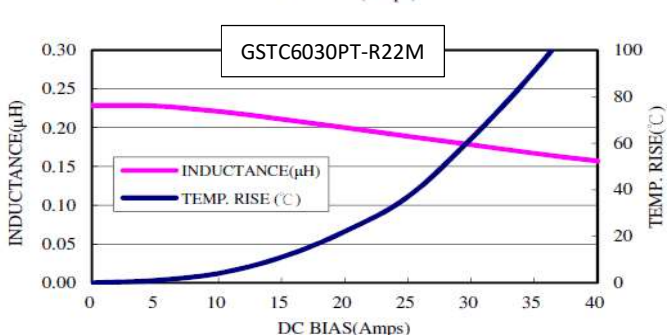
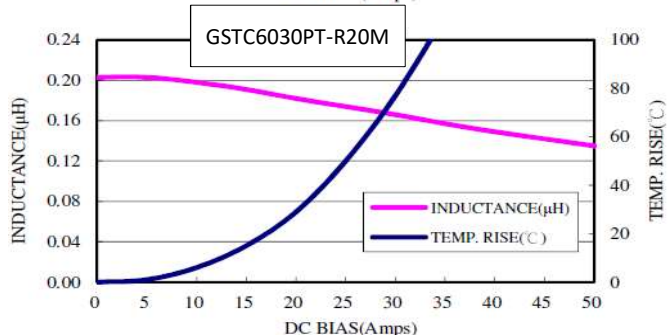
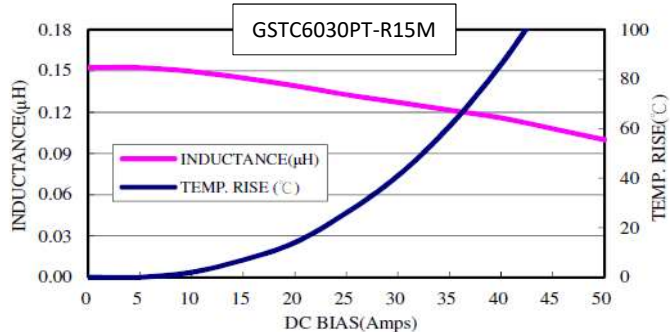
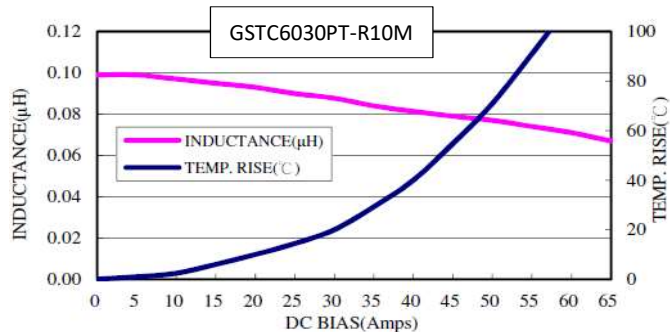
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC6030PT-SERIES

Current Characteristic :

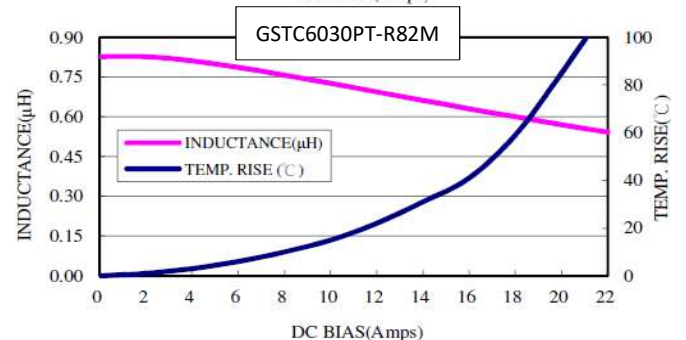
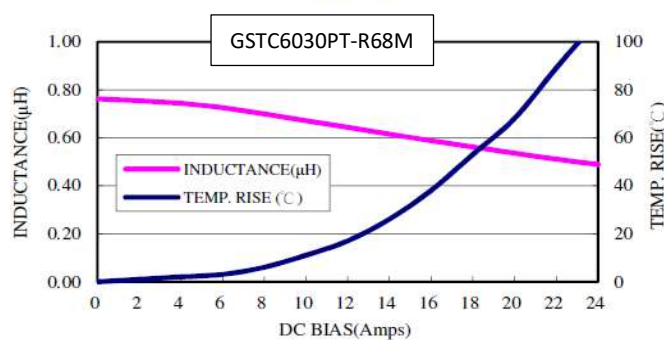
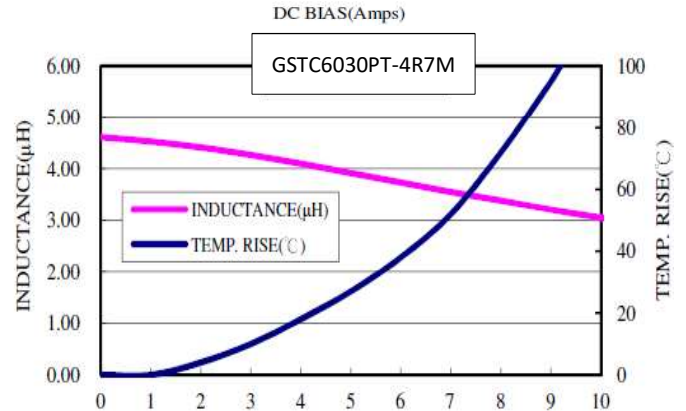
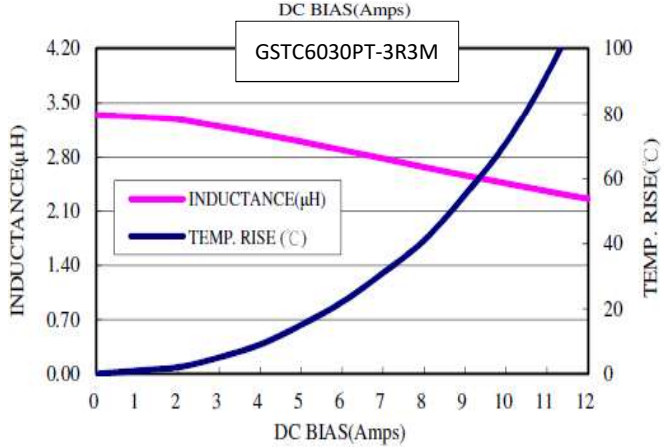
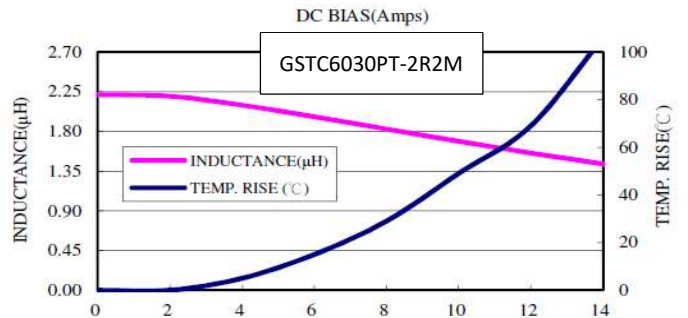
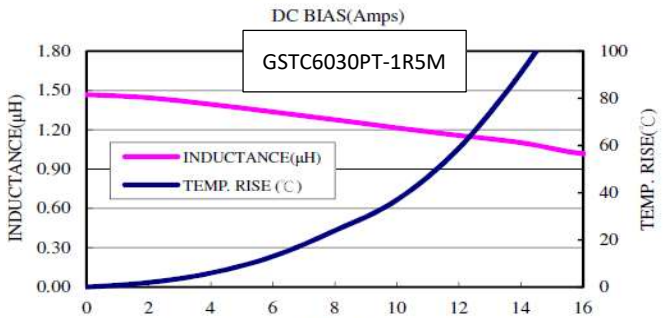
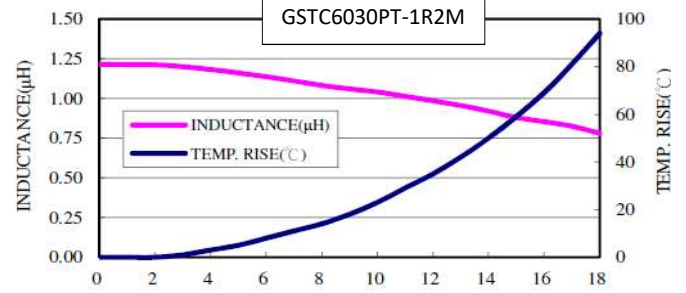
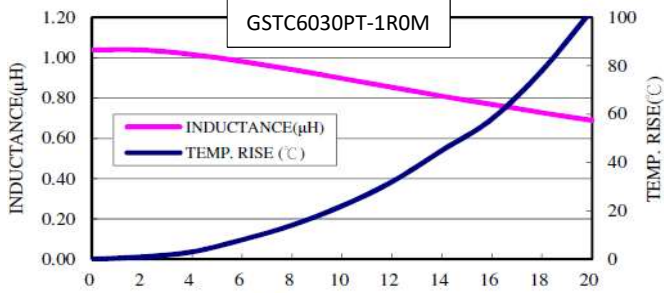


Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC6030PT-SERIES

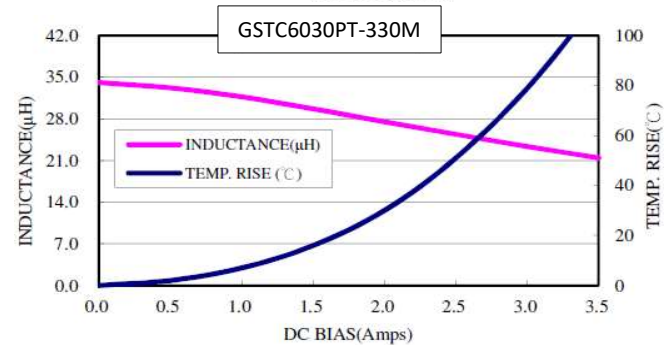
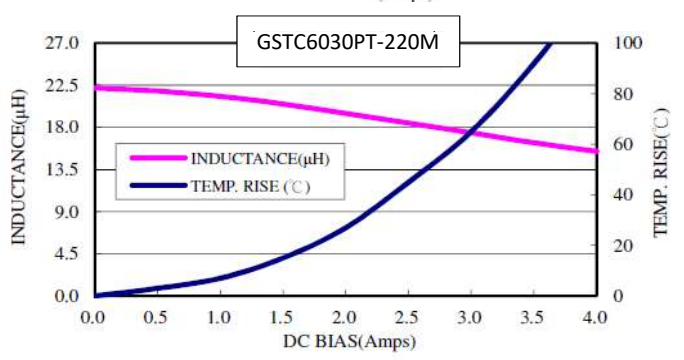
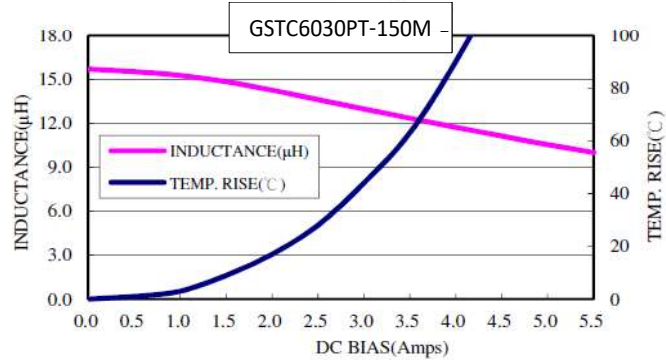
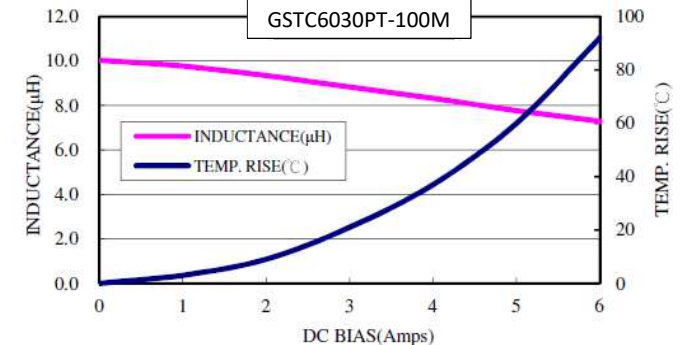
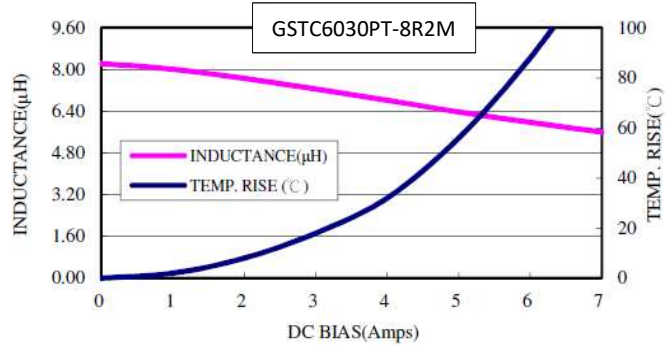
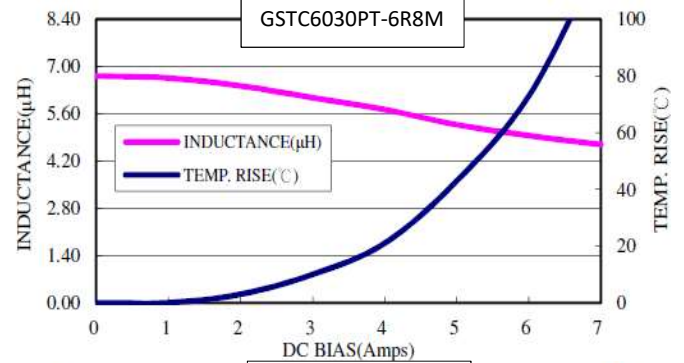
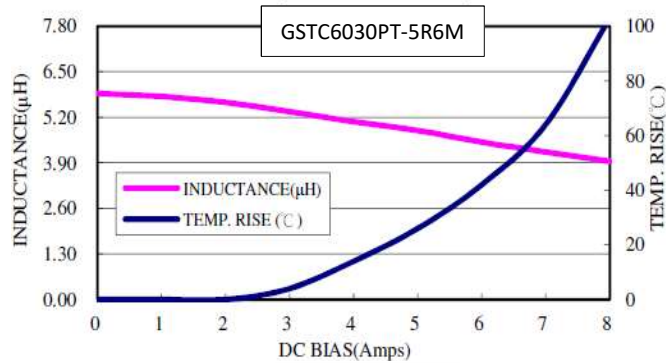
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6030PT-SERIES

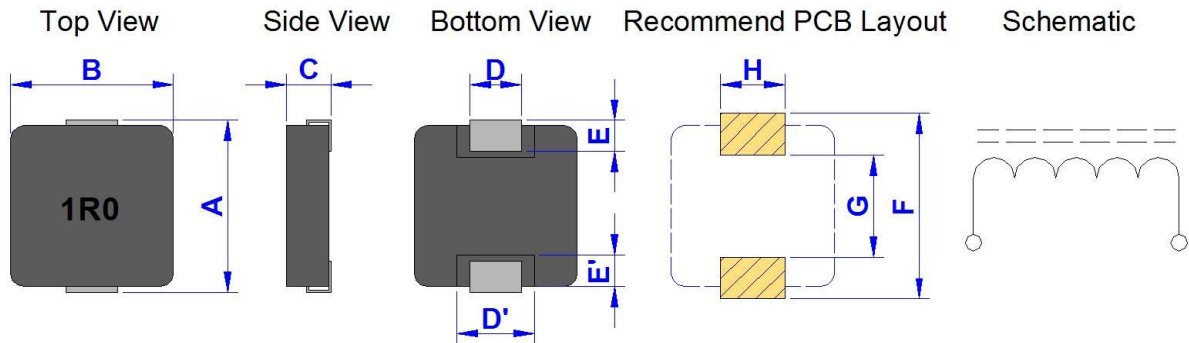
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6040PT-SERIES

Dimension [mm] :



Size	A	B(±0.20)	C(±0.20)	D(+/-0.3)	D'(+/-0.2)	E(+/-0.3)	E'(+/-0.1)
6040PT	BY ITEM	6.60	3.80	3.00	3.60	1.60	2.00
	F(Ref.)	G(Ref.)	H(Ref.)				
	8.40	3.70	3.50				

Electrical Characteristics :

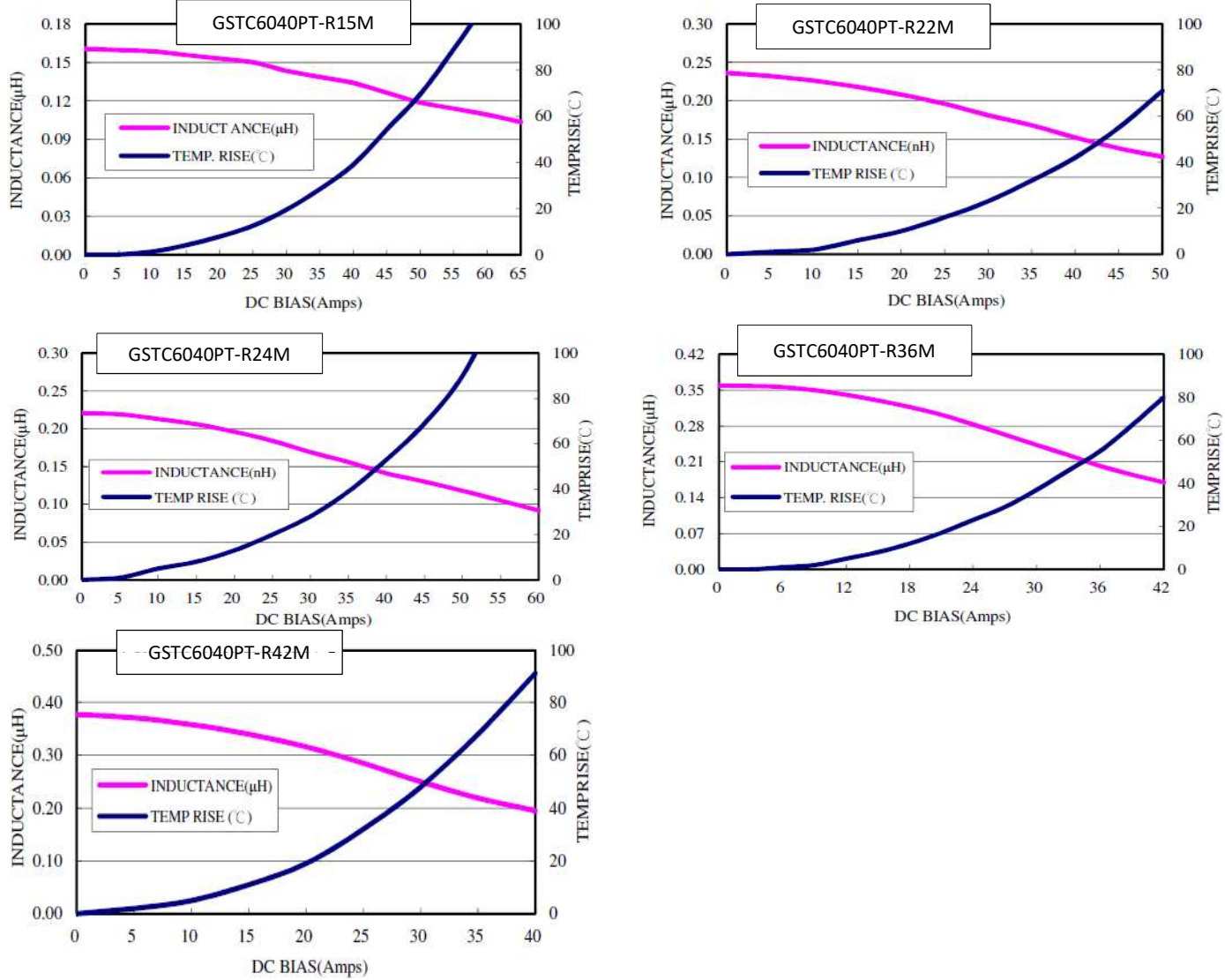
Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm)	Idc(Amp) [Typ.] / [Max.	Isat (Amp) [Typ.] / [Max.	Size A
GSTC6040PT-R15M	0.15	0.66 ± 7%	40.00/37.00	50.00/46.00	7.6 Max
GSTC6040PT-R22M	0.22	0.98 ± 7%	35.00/32.00	35.50/28.50	7.6 Max
GSTC6040PT-R24M	0.24	1.00 ± 7%	34.00/31.00	35.50/28.50	7.6 Max
GSTC6040PT-R36M	0.36	1.40 ± 7%	30.00/25.00	26.00/23.00	6.95 ±0.35
GSTC6040PT-R42M	0.42	1.55 ± 7%	24.00/21.00	23.00/19.00	6.95 ±0.35

- * **Test Condition:** @100KHz,1.0Vrms, 25°C Ambient
- * **Idc** : DC current (A) that will cause an approximate ΔT of 40℃
- * **Isat** : DC current (A) that will cause L0 to drop approximately 30%
- * **Operating Temperature Range:** -55℃ to +125℃

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC6040PT-SERIES

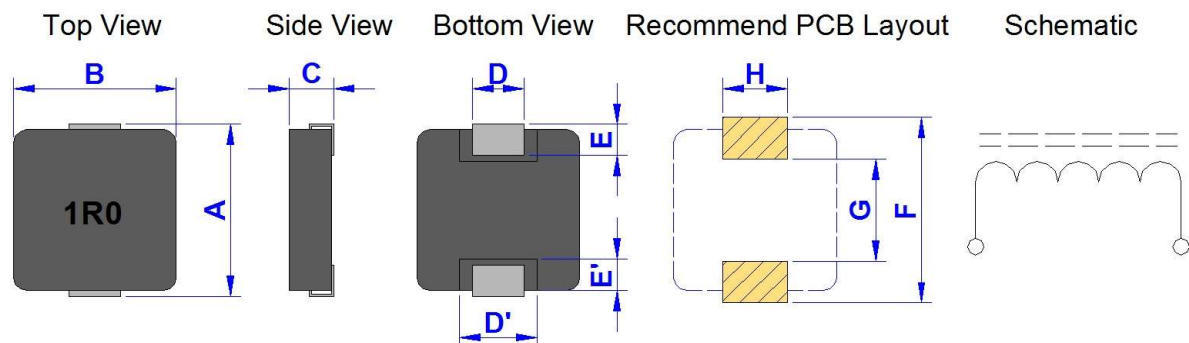
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1030PT-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.30)	C(±0.20)	D(+/-0.5)	D'(±/-0.2)	E(+/-0.5)	E'(±/-0.1)
1030PT	10.85	10.00	2.80	3.00	5.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	13.60	5.40	4.10				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]
GSTC1030PT-1R0M	1.00	5.20/6.00	15.00/13.50	23.00/20.00
GSTC1030PT-1R5M	1.50	6.50/7.50	13.50/12.20	20.00/16.00
GSTC1030PT-2R2M	2.20	7.70/8.90	13.20/12.00	16.20/13.70
GSTC1030PT-3R3M	3.30	13.80/15.50	9.20/8.50	14.50/12.20
GSTC1030PT-4R7M	4.70	20.00/23.20	7.00/6.30	13.50/11.60
GSTC1030PT-8R2M	8.20	34.70/40.00	5.00/4.50	8.80/7.50
GSTC1030PT-100M	10.00	45.00/52.00	4.50/4.00	7.80/6.40
GSTC1030PT-220M	22.00	89.00/97.00	3.30/2.90	5.20/4.50

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

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

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

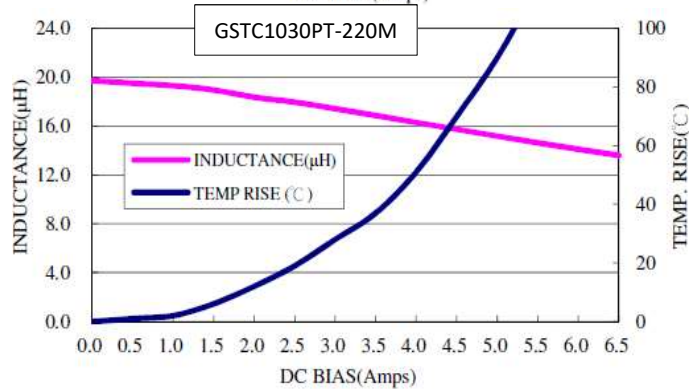
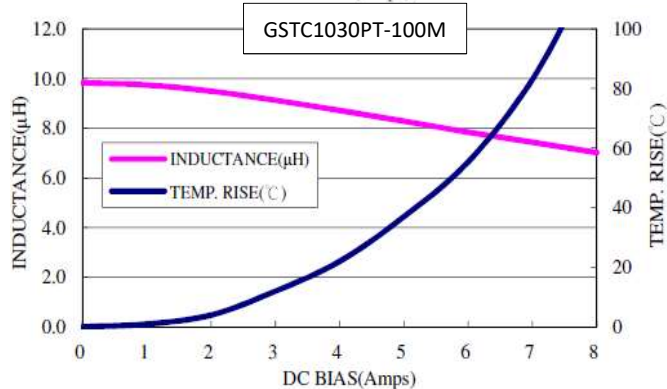
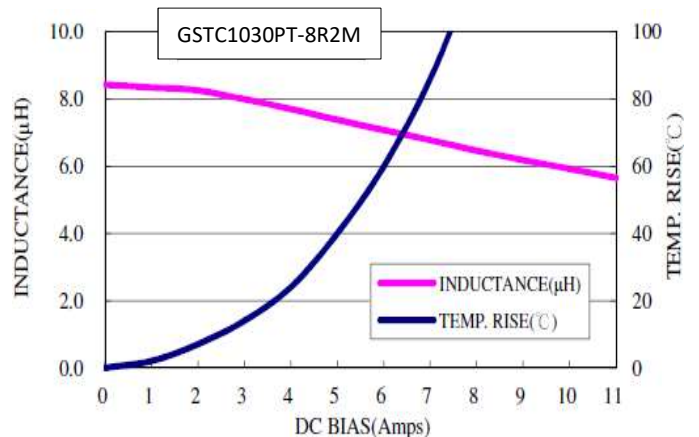
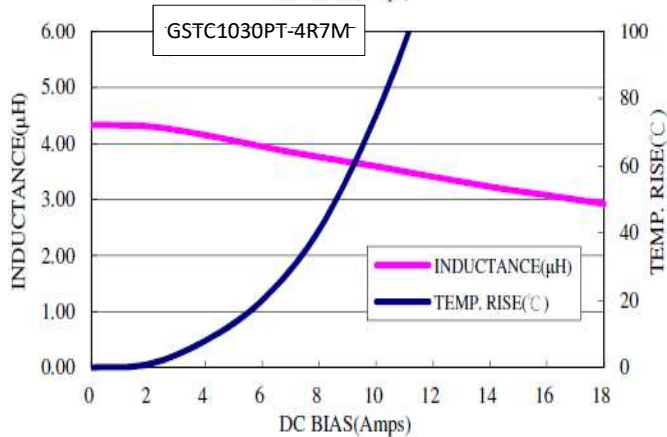
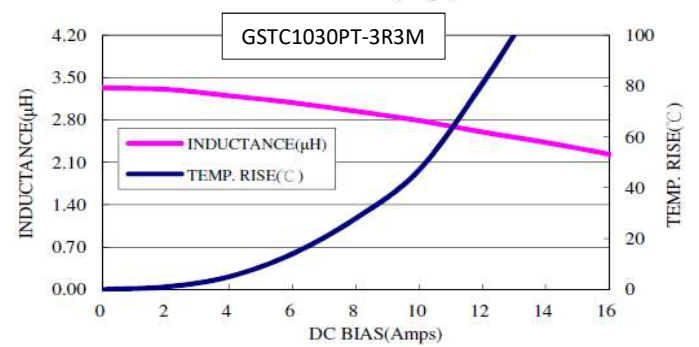
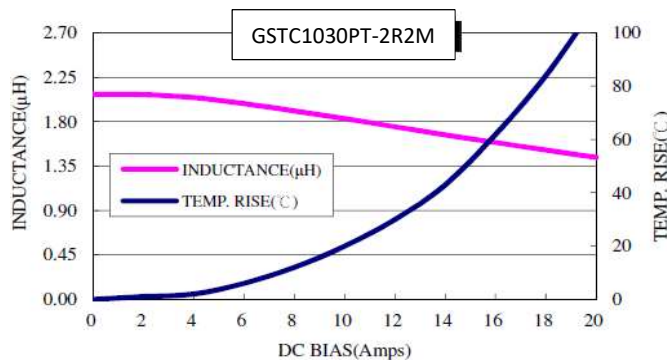
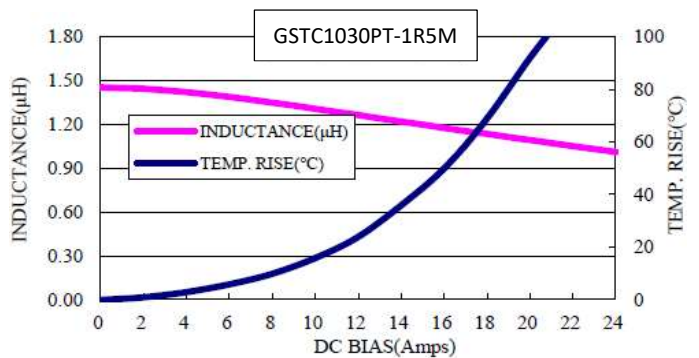
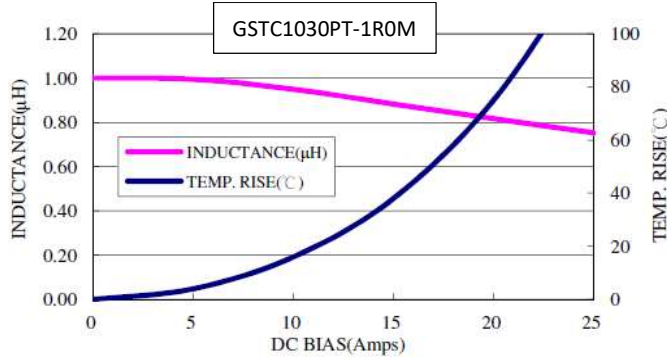
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1030PT-SERIES

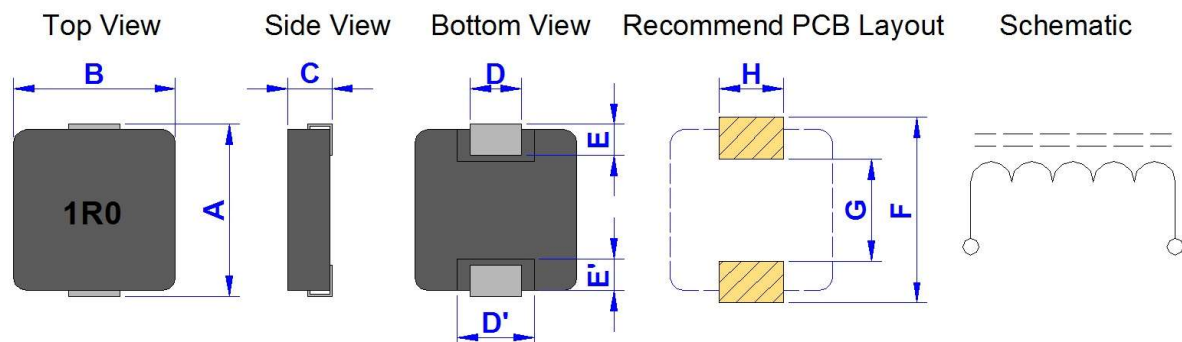
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1040PT-SERIES

Dimension [mm] :



Size	A	B(±0.30)	C(±0.20)	D(+/-0.5)	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
1040PT	BY ITEM	10.00	3.80	3.00	5.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	13.60	5.40	4.10				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]	Size A ±0.35
GSTC1040PT-R22M	0.22	0.60/0.70	50.00/45.00	72.00/66.00	11.15
GSTC1040PT-R45M	0.45	1.00/1.10	35.00/32.00	48.00/43.00	11.15
GSTC1040PT-1R0M	1.00	2.30/2.60	25.00/22.50	32.00/28.00	11.15
GSTC1040PT-1R5M	1.50	3.00/3.60	23.00/21.00	29.00/26.00	11.15
GSTC1040PT-2R2M	2.20	5.30/6.20	17.00/16.00	25.00/21.00	10.85
GSTC1040PT-3R3M	3.30	9.00/10.00	15.00/13.00	19.00/17.00	10.85
GSTC1040PT-4R7M	4.70	12.30/13.80	12.00/11.00	18.00/16.00	10.85

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

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

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

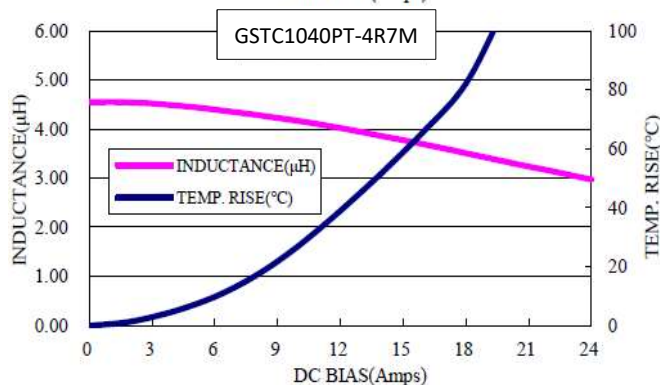
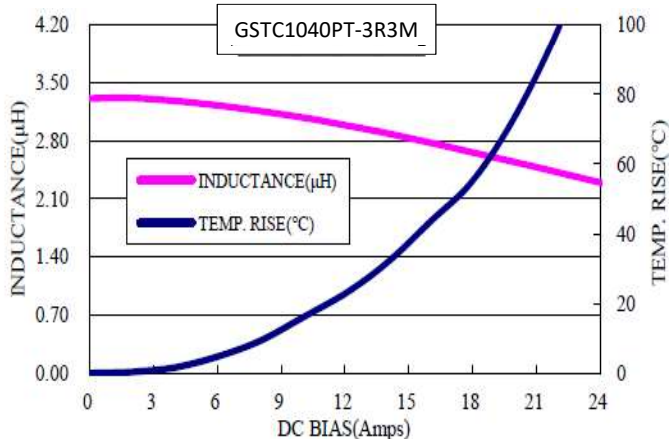
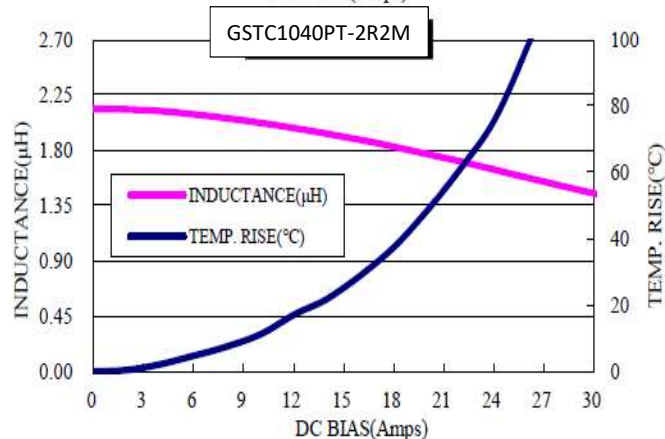
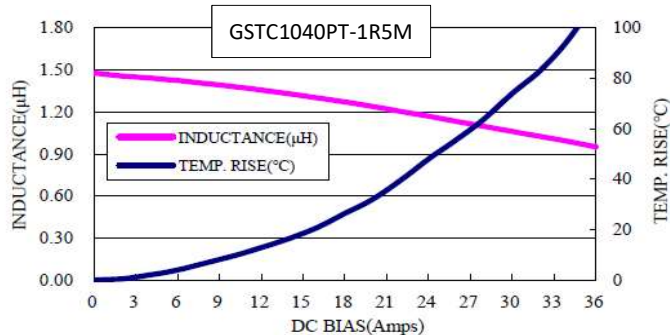
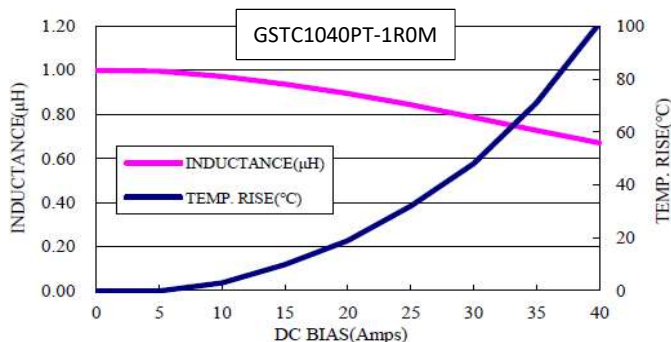
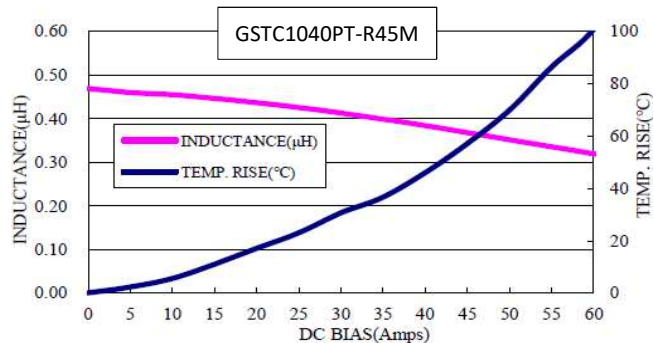
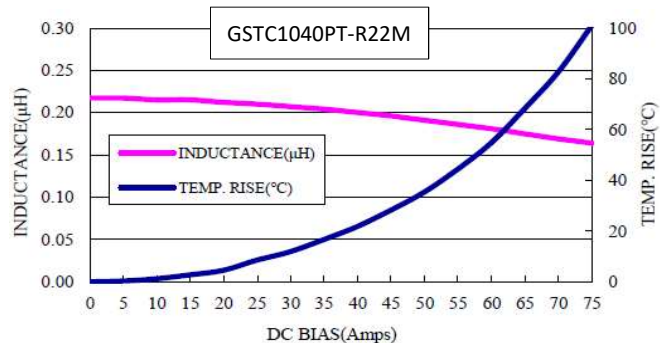
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1040PT-SERIES

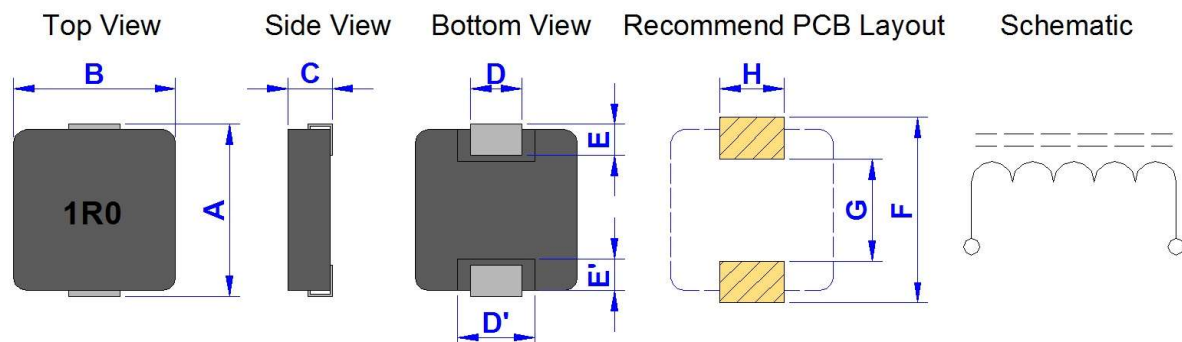
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1040PB-SERIES

Dimension [mm] :



Size	A	B(±0.30)	C(±0.20)	D(+/-0.5)	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
1040PB	BY ITEM	10.00	3.80	3.00	5.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	13.60	5.40	4.10				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]	Size A (mm) ±0.35
GSTC1040PB-R22M	0.22	0.82/0.93	36.00/32.00	61.00/59.00	11.15
GSTC1040PB-R36M	0.36	1.05/1.18	33.00/29.00	51.00/42.00	11.15
GSTC1040PB-R47M	0.47	1.30/1.50	32.00/28.00	46.00/40.00	11.15
GSTC1040PB-R56M	0.56	1.59/1.80	25.00/23.00	33.50/28.00	11.15
GSTC1040PB-1R0M	1.00	2.85/3.30	19.00/17.00	29.00/26.00	11.15
GSTC1040PB-1R5M	1.50	3.80/4.20	16.00/15.00	22.00/18.00	11.15
GSTC1040PB-2R2M	2.20	6.00/7.00	12.00/11.00	20.00/16.00	10.85
GSTC1040PB-3R3M	3.30	10.50/12.00	10.00/9.00	16.20/13.50	10.85
GSTC1040PB-4R7M	4.70	16.80/20.00	8.50/7.60	15.20/13.00	10.85
GSTC1040PB-5R6M	5.60	19.80/23.00	8.00/7.20	14.10/11.50	10.85
GSTC1040PB-6R8M	6.80	22.00/24.50	7.50/6.50	12.20/11.00	10.85
GSTC1040PB-100M	10.00	27.00/30.00	7.50/5.80	8.60/7.20	10.85
GSTC1040PB-220M	22.00	59.00/66.00	5.00/4.00	6.20/5.40	10.85
GSTC1040PB-330M	33.00	84.00/91.00	4.40/3.50	5.50/5.00	10.85
GSTC1040PB-470M	47.00	129.00/143.00	3.30/2.80	4.00/3.700	10.85

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

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

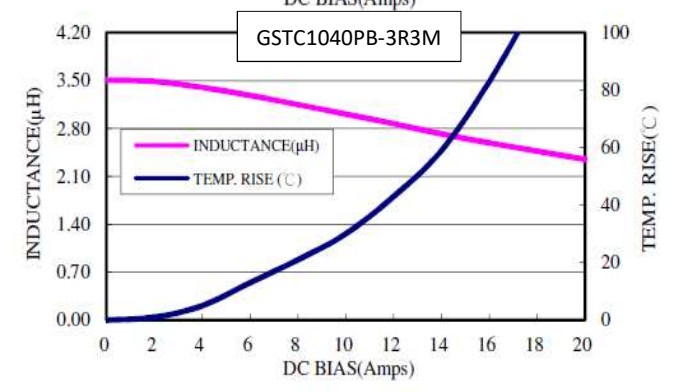
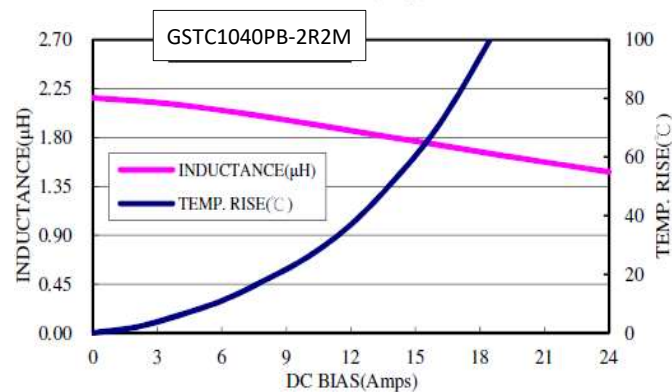
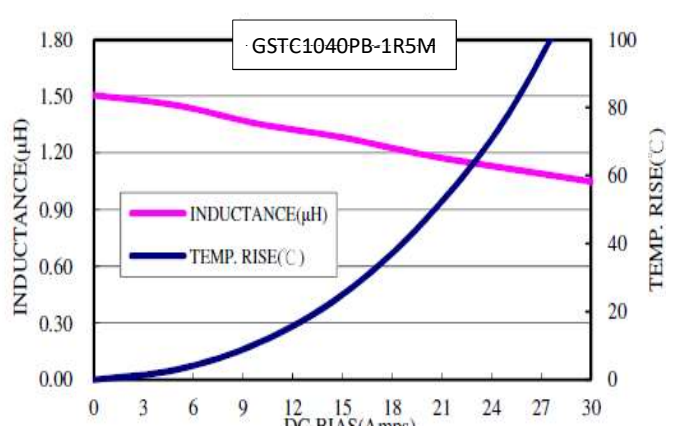
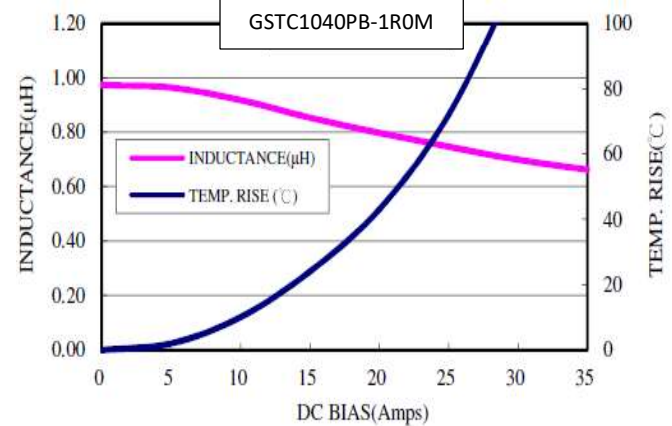
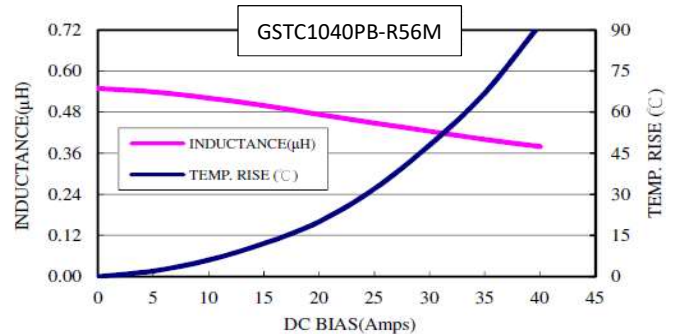
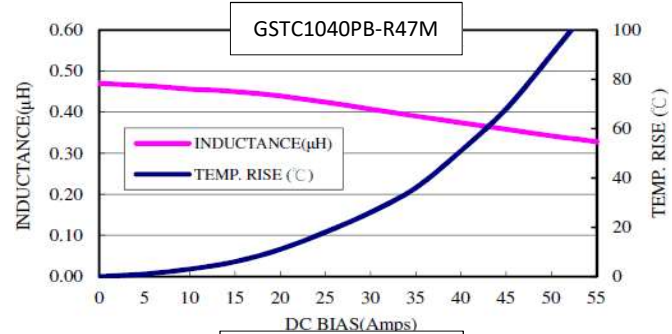
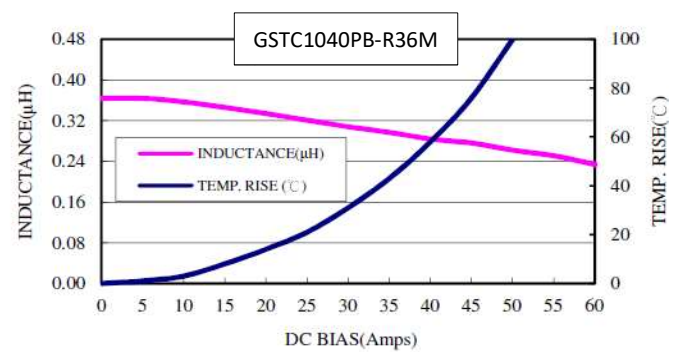
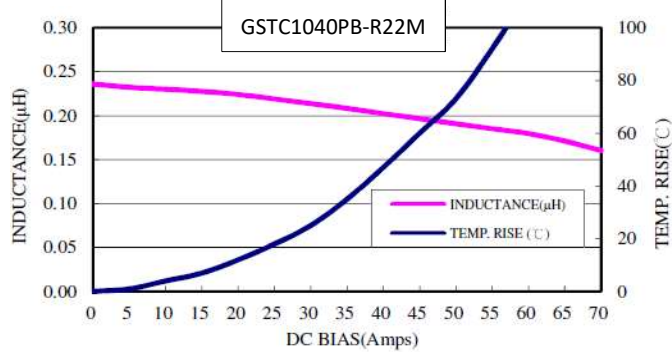
* **Isat** : DC current (A) that will cause L0 to drop approximately 30%

* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1040PB-SERIES

Current Characteristic :

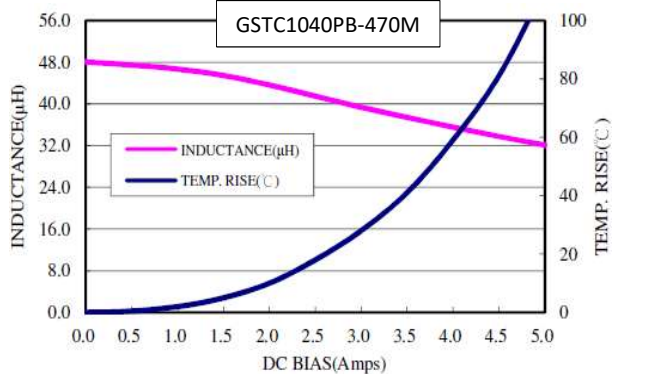
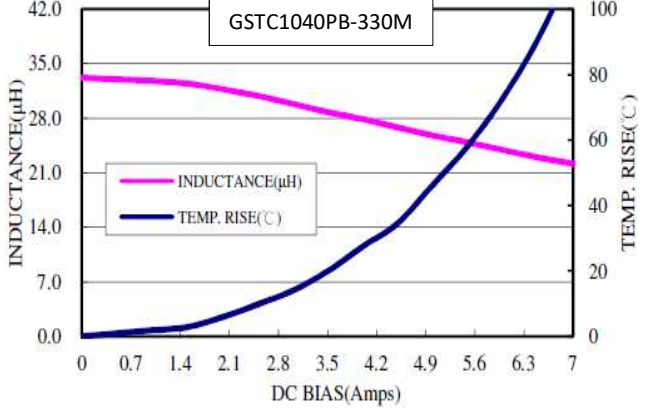
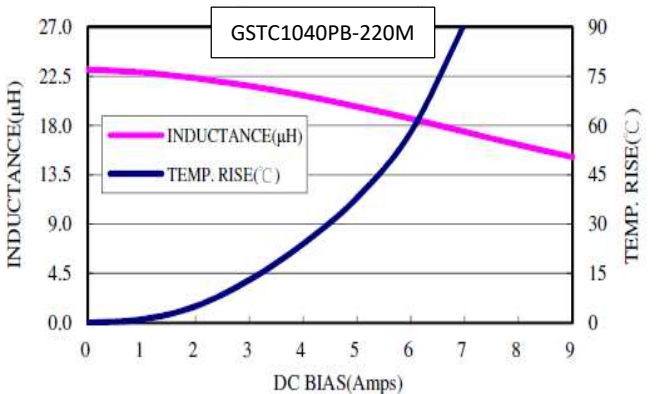
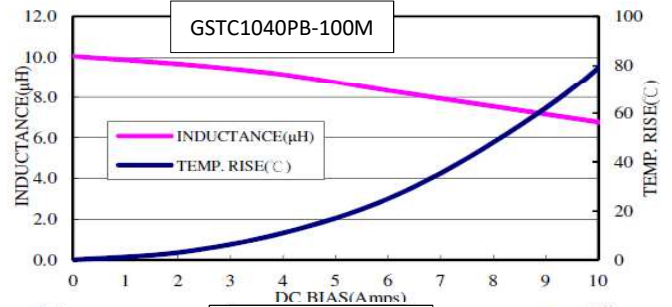
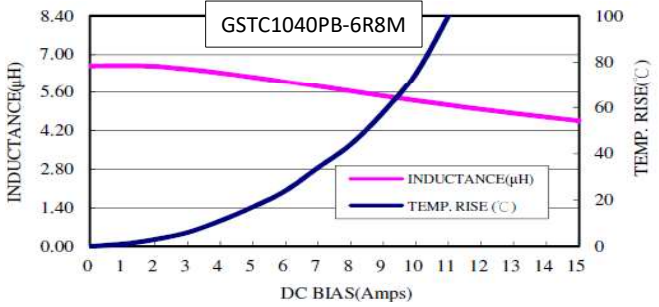
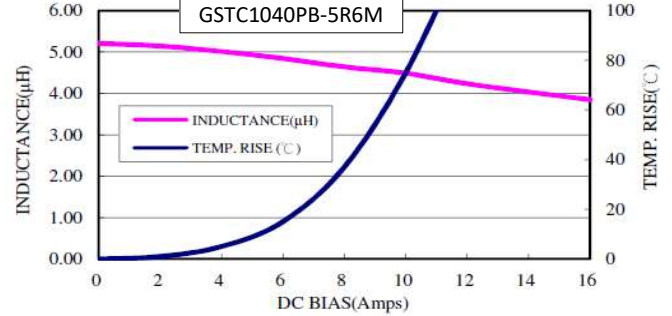
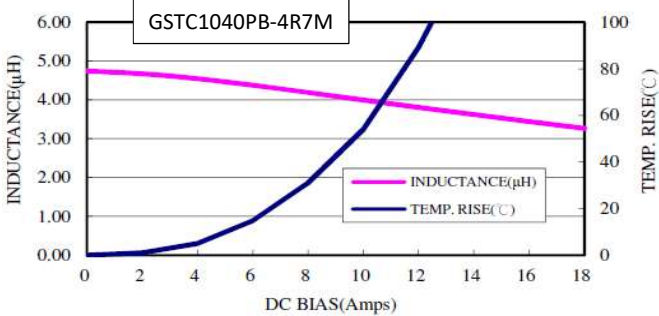
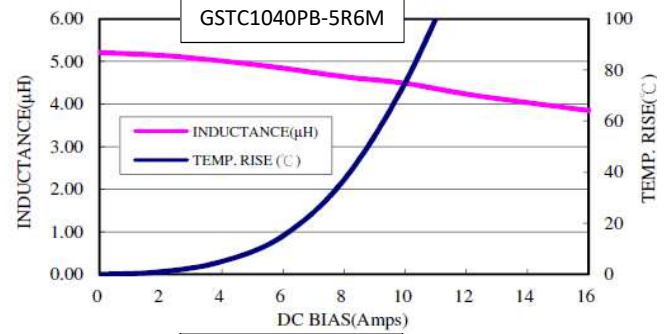
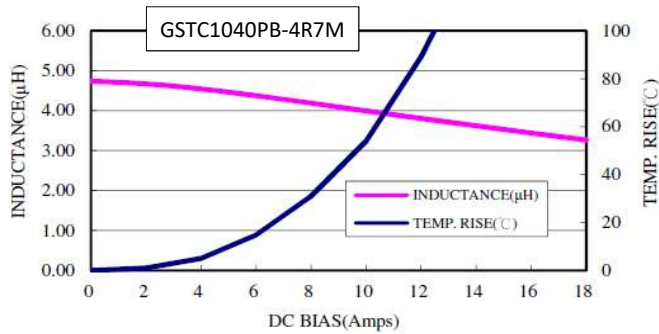


Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1040PB-SERIES

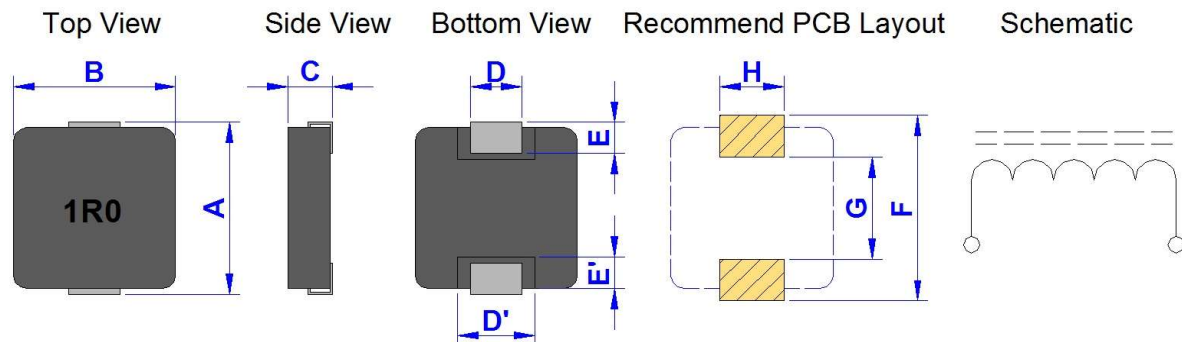
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1040PL-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.30)	C(±0.20)	D(+/-0.5)	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
1040PL	11.15	10.00	3.80	3.00	5.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	13.60	5.40	4.10				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm)	I _{dc} (Amp) [Typ.] / [Max.]	I _{sat} (Amp) [Typ.] / [Max.]
GSTC1040PL-R22M	0.22	0.6 ± 7%	50.00/45.00	72.00/66.00
GSTC1040PL-R36M	0.36	0.76 ± 5%	43.00/38.00	53.00/45.00
GSTC1040PL-R45M	0.45	1.0 ± 7%	35.00/32.00	48.00/43.00
GSTC1040PL-R56M	0.56	1.4 ± 7%	34.00/31.00	38.00/35.00
GSTC1040PL-R68M	0.68	1.6 ± 7%	31.00/28.00	34.00/31.00
GSTC1040PL-R88M	0.88	2.3 ± 7%	27.00/24.00	33.00/28.50
GSTC1040PL-1R0M	1.00	2.3 ± 7%	25.00/22.50	32.00/28.00

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

* **I_{dc}** : DC current (A) that will cause an approximate ΔT of 40°C

* **I_{sat}** : DC current (A) that will cause L0 to drop approximately 30%

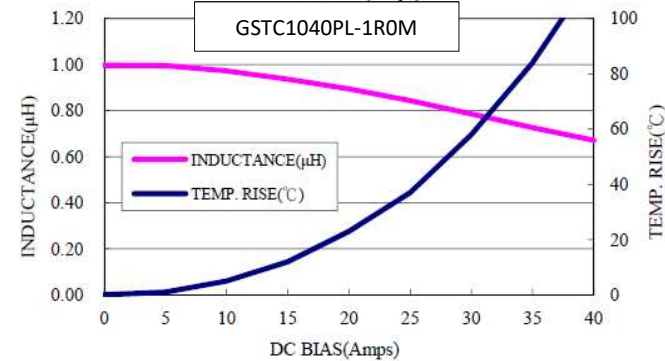
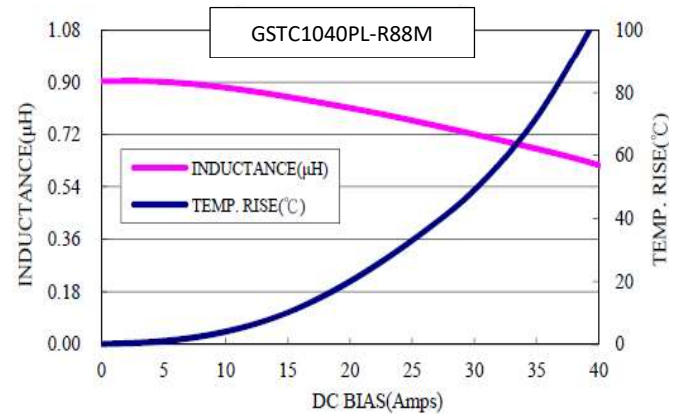
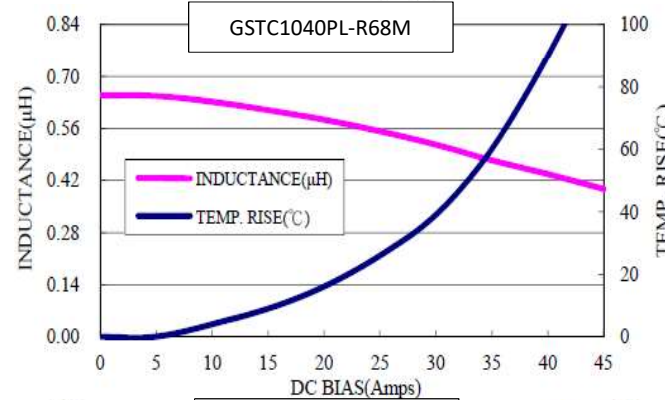
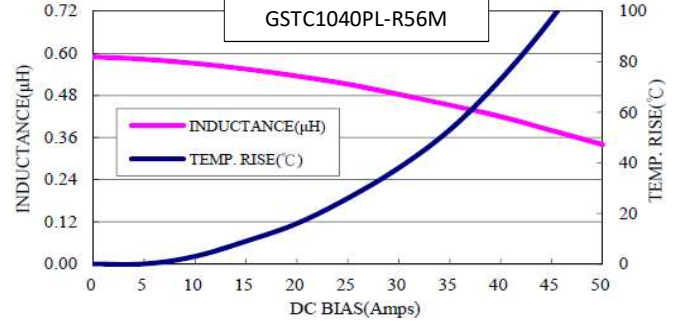
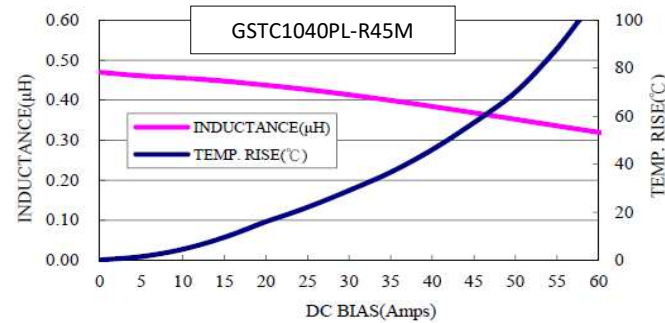
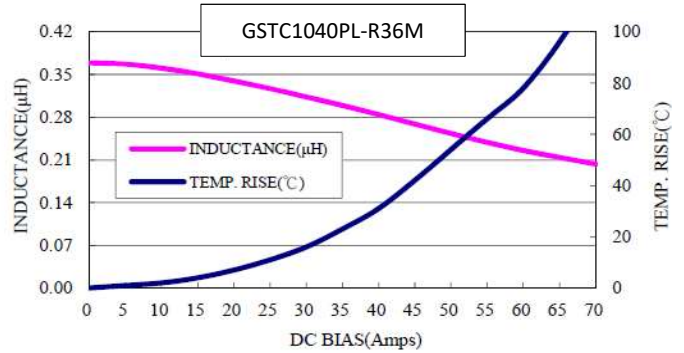
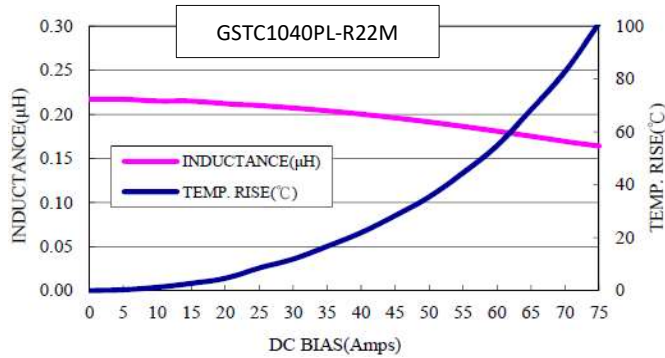
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1040PL-SERIES

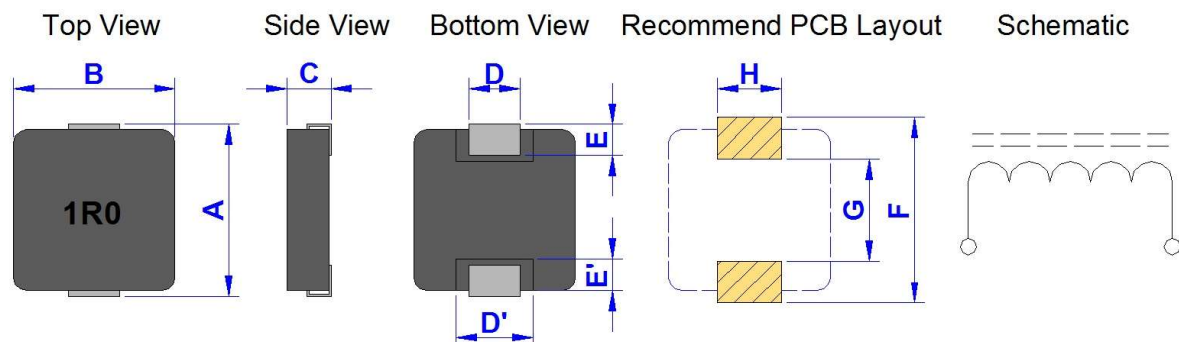
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1040PS-SERIES

Dimension [mm] :



Size	A	B(±0.30)	C(±0.20)	D(+/-0.5)	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
1040PS	BY ITEM	10.00	3.80	3.00	5.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	13.60	5.40	4.10				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]	Size A (mm) ±0.35
GSTC1040PS-R22M	0.22	0.85/0.95	40.00/35.00	90.00/75.00	11.15
GSTC1040PS-R36M	0.36	1.10/1.25	30.00/27.00	70.00/60.00	11.15
GSTC1040PS-R56M	0.56	1.60/1.80	25.00/22.00	45.00/40.00	11.15
GSTC1040PS-R68M	0.68	1.80/2.10	22.00/20.00	43.00/37.00	11.15
GSTC1040PS-1R0M	1.00	2.70/3.20	20.00/18.00	41.00/36.00	11.15
GSTC1040PS-1R5M	1.50	3.80/4.20	16.00/14.00	38.00/33.00	11.15
GSTC1040PS-2R2M	2.20	6.40/7.00	12.50/11.00	27.00/23.00	10.85
GSTC1040PS-3R3M	3.30	10.80/11.80	10.70/10.00	24.00/20.00	10.85
GSTC1040PS-4R7M	4.70	15.20/16.50	9.60/8.50	19.00/17.00	10.85
GSTC1040PS-5R6M	5.60	17.00/19.30	9.00/8.00	18.00/16.00	10.85

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

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

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

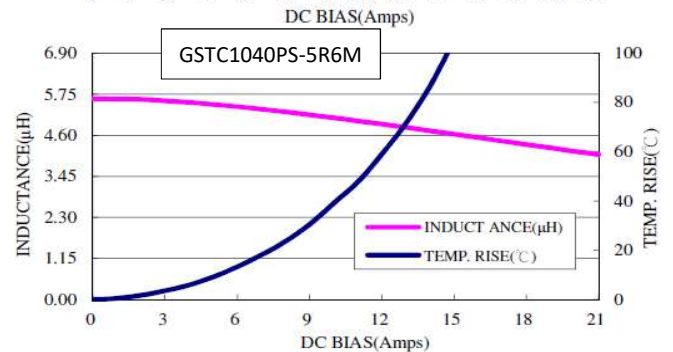
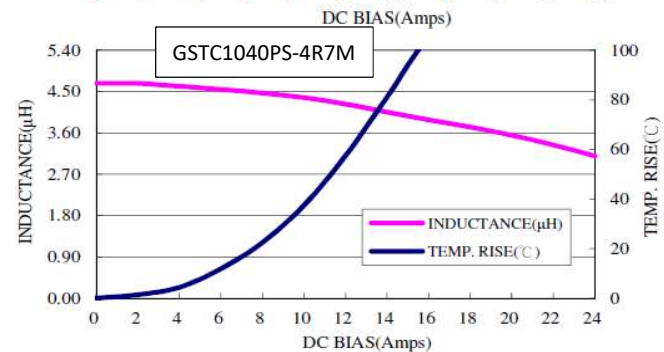
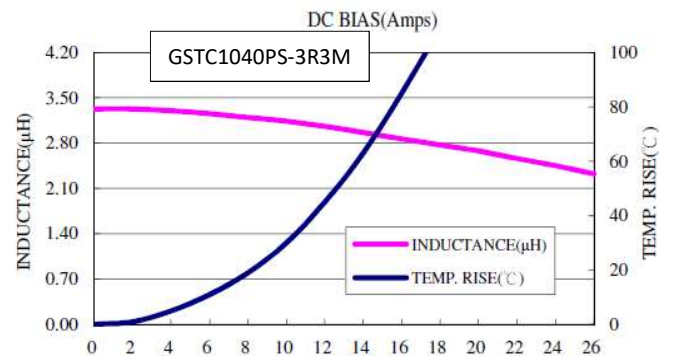
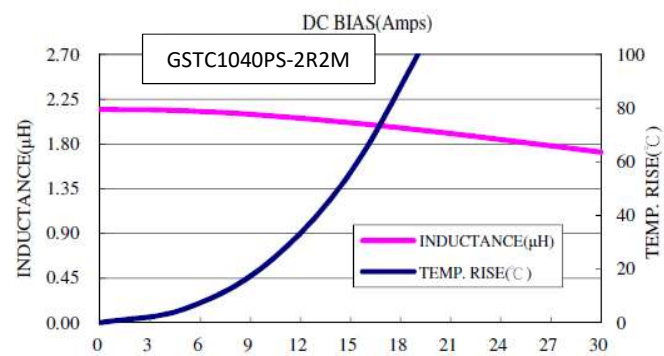
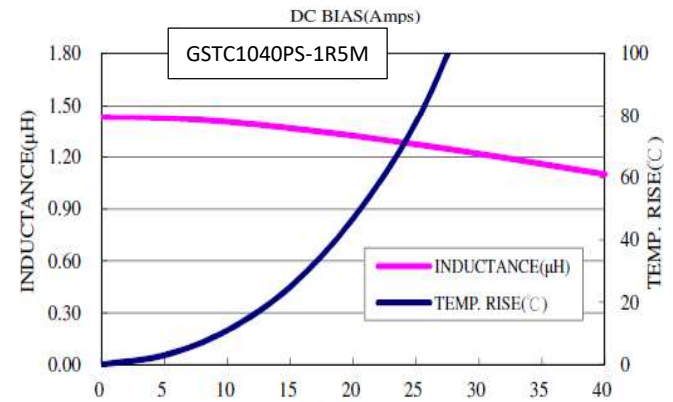
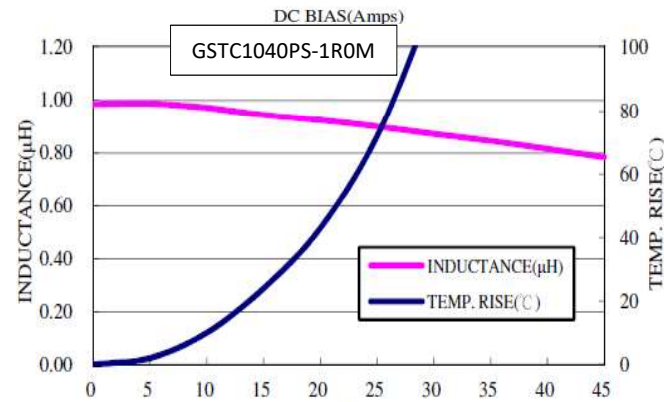
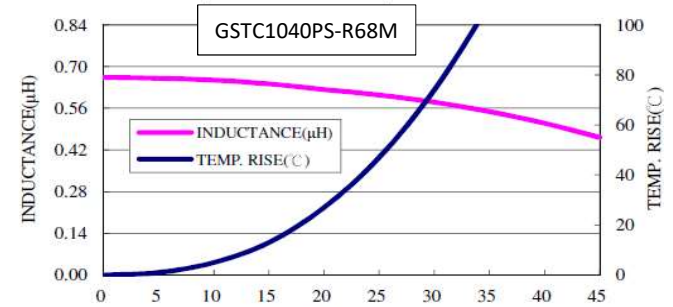
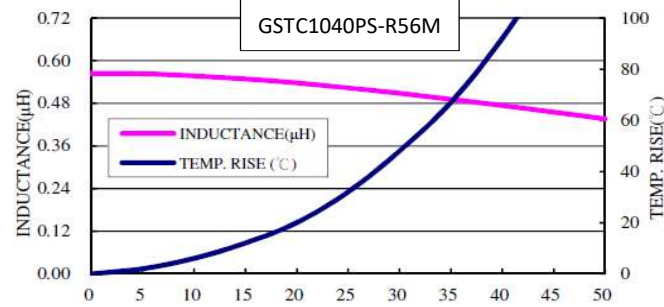
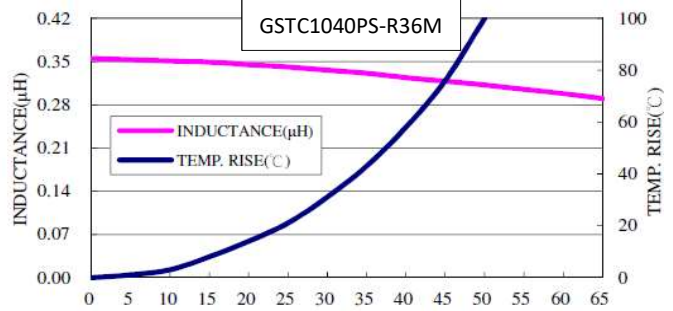
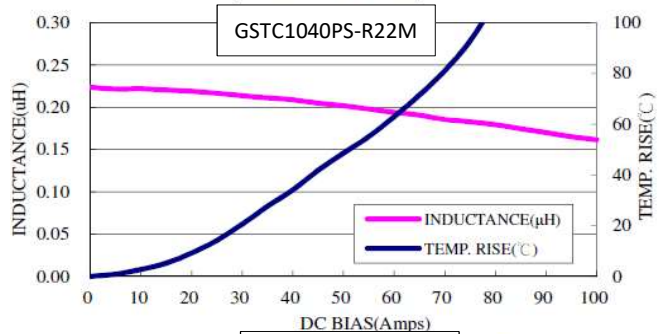
* **Operating Temperature Range** : -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1040PS-SERIES

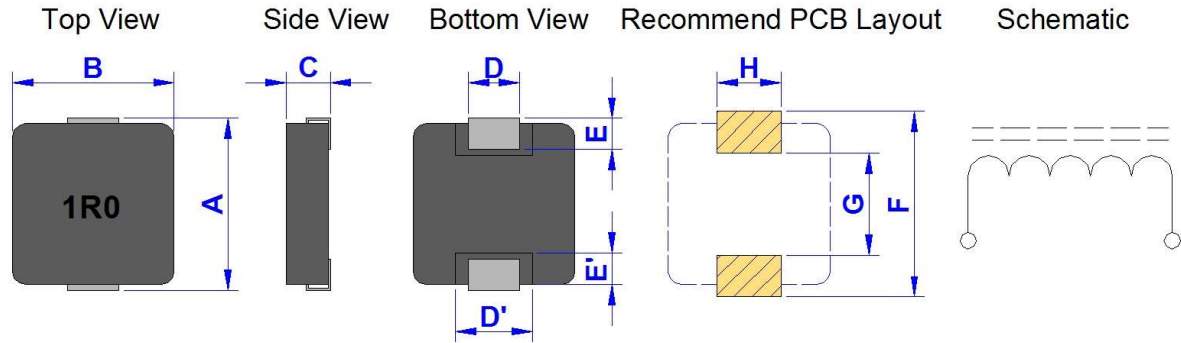
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1045PE-SERIES

Dimension [mm] :



Size	A(± 0.35)	B(± 0.30)	C(± 0.20)	D(± 0.5)	D'(± 0.2)	E(± 0.5)	E'(± 0.1)
1045PE	10.85	10.00	4.30	3.00	5.00	2.00	2.50
	F(Ref.) 13.60	G(Ref.) 5.40	H(Ref.) 4.10				

Electrical Characteristics :

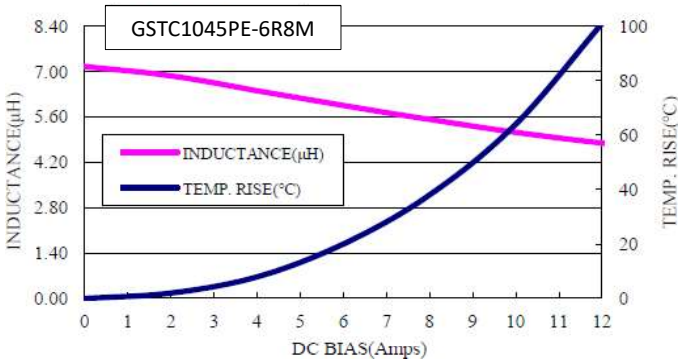
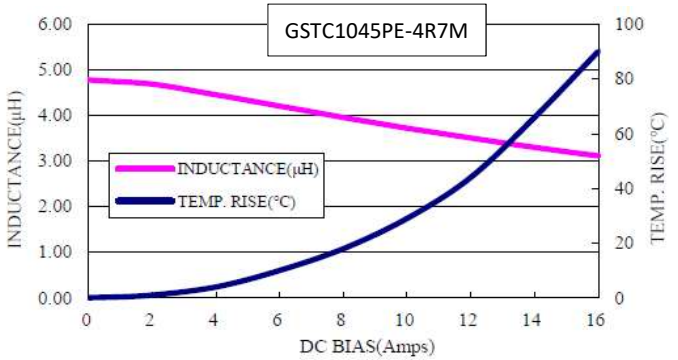
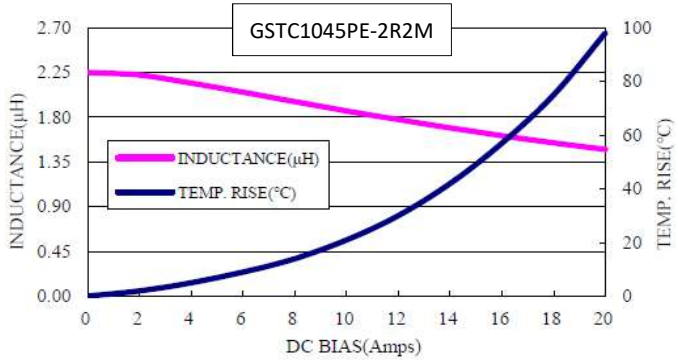
Part No.	Inductance L(μ H) $\pm$ 20%	DCR (m Ohm) [Typ.] / [Max.]	I _{dc} (Amp) [Typ.] / [Max.]	I _{sat} (Amp) [Typ.] / [Max.]
GSTC1045PE-2R2M	2.20	5.80/6.90	14.00/12.00	18.00/16.00
GSTC1045PE-4R7M	4.70	13.00/15.00	11.00/10.00	15.00/13.00
GSTC1045PE-6R8M	6.80	20.00/24.00	8.00/7.00	12.00/9.50

- * **Test Condition:** @100KHz, 1.0Vrms, 25°C Ambient
- * **I_{dc}** : DC current (A) that will cause an approximate ΔT of 40°C
- * **I_{sat}** : DC current (A) that will cause L0 to drop approximately 30%
- * **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1045PE-SERIES

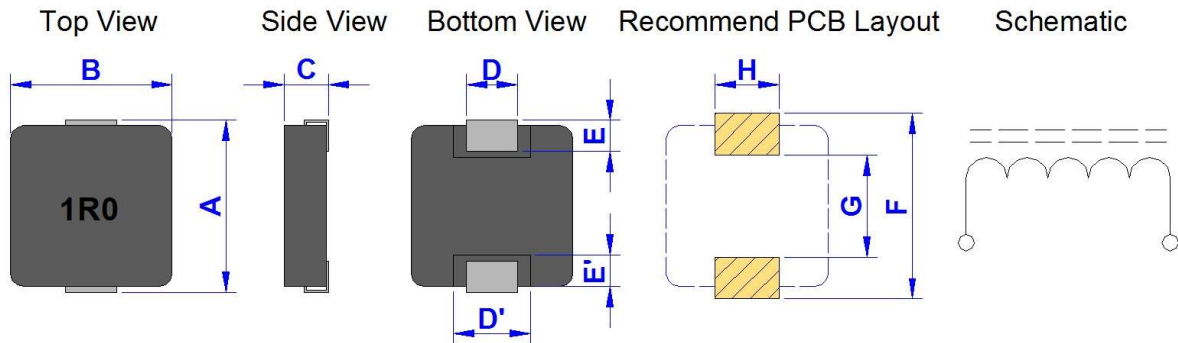
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1235PE-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.20)	C(±0.20)	D	D'(±/-0.2)	E(±/-0.5)	E'(±/-0.1)
1235PE	13.45	12.60	3.30	BY ITEM	6.00	2.00	2.50
	F(Ref.)	G(Ref.)	H				
	14.50	8.00	BY ITEM				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.	Idc(Amp) [Typ.] / [Max.	Isat (Amp) [Typ.] / [Max.	Size D (mm) ±0.5	Size H (mm) Ref.
GSTC1235PE-R33M	0.33	1.30/1.50	36.50/33.00	74.00/64.00	4.00	5.00
GSTC1235PE-R47M	0.47	1.60/2.00	32.00/25.00	68.00/62.00	4.00	5.00
GSTC1235PE-R68M	0.68	2.20/2.40	28.00/23.00	57.00/49.00	4.00	5.00
GSTC1235PE-1R0M	1.00	3.28/3.50	24.00/21.00	50.00/40.00	4.00	4.00
GSTC1235PE-1R5M	1.50	4.60/5.40	19.00/17.00	40.00/34.00	3.00	4.00
GSTC1235PE-2R2M	2.20	7.00/8.10	16.20/14.60	31.00/27.00	3.00	4.00
GSTC1235PE-3R3M	3.30	9.50/11.50	12.00/10.80	30.00/26.00	3.00	4.00
GSTC1235PE-4R7M	4.70	15.80/17.80	9.10/8.20	23.00/19.80	3.00	4.00
GSTC1235PE-6R8M	6.80	21.70/26.00	7.80/7.00	17.40/14.90	3.00	4.00

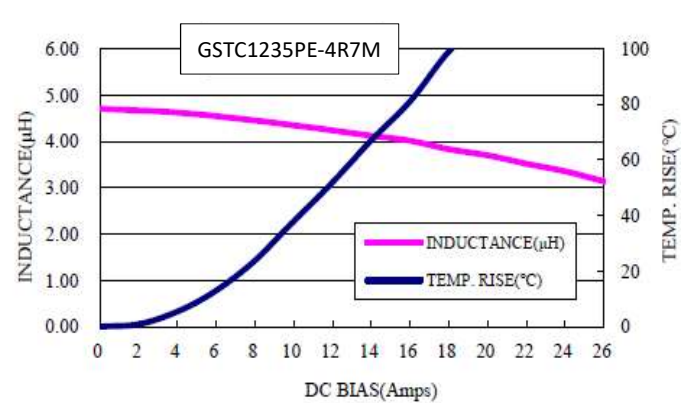
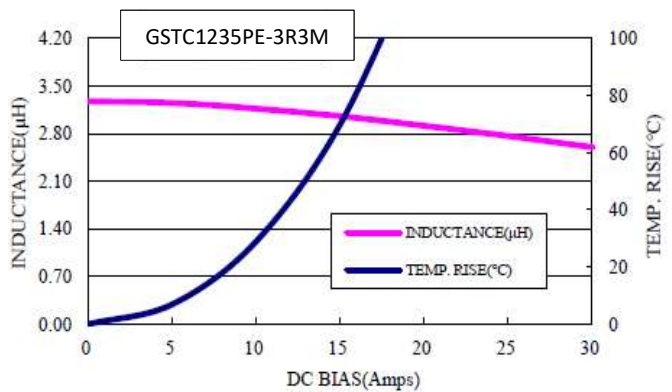
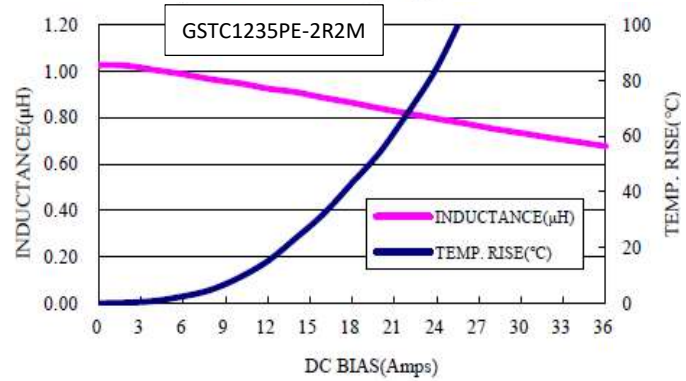
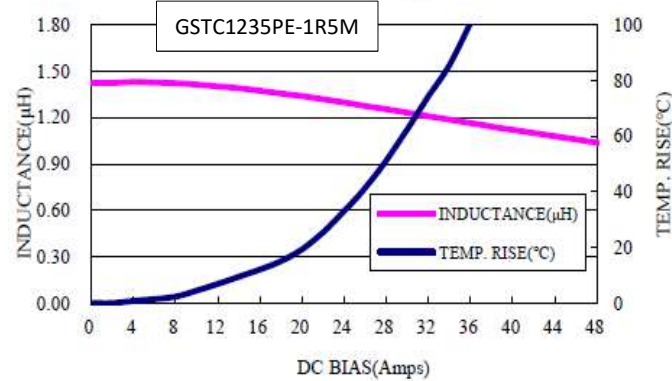
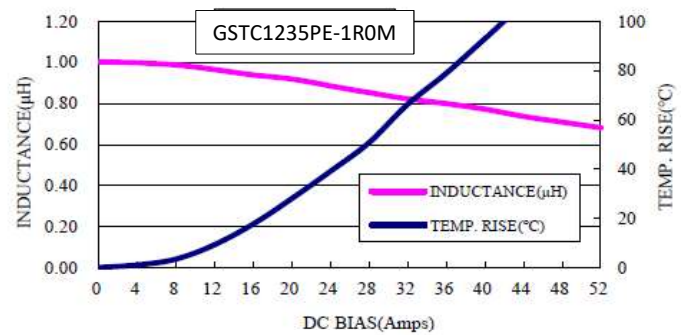
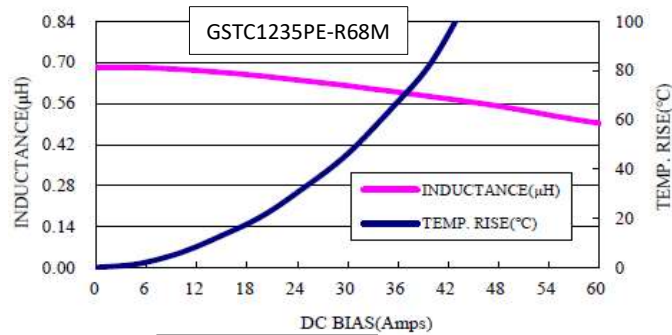
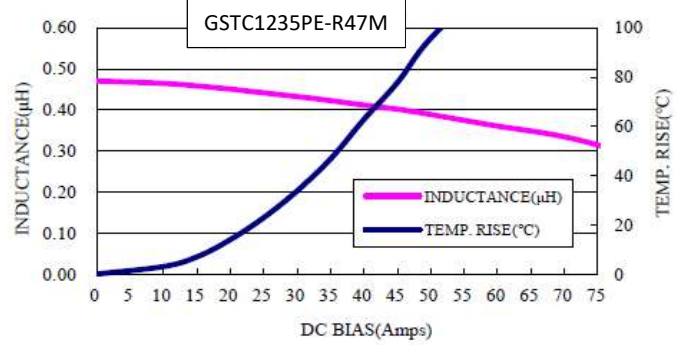
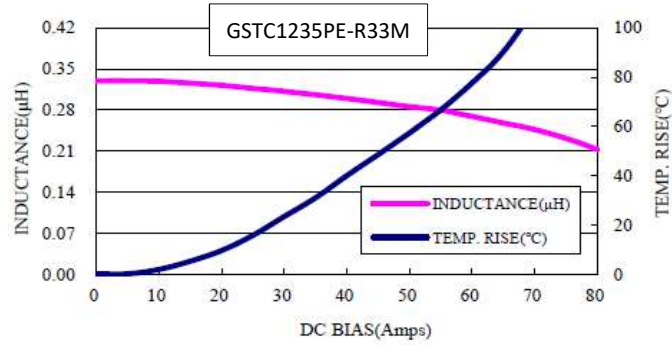
- * **Test Condition:** @100KHz,1.0Vrms, 25°C Ambient
- * **Idc** : DC current (A) that will cause an approximate ΔT of 40℃
- * **Isat** : DC current (A) that will cause L0 to drop approximately 30%
- * **Operating Temperature Range:** -55℃ to +125℃

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1235PE-SERIES

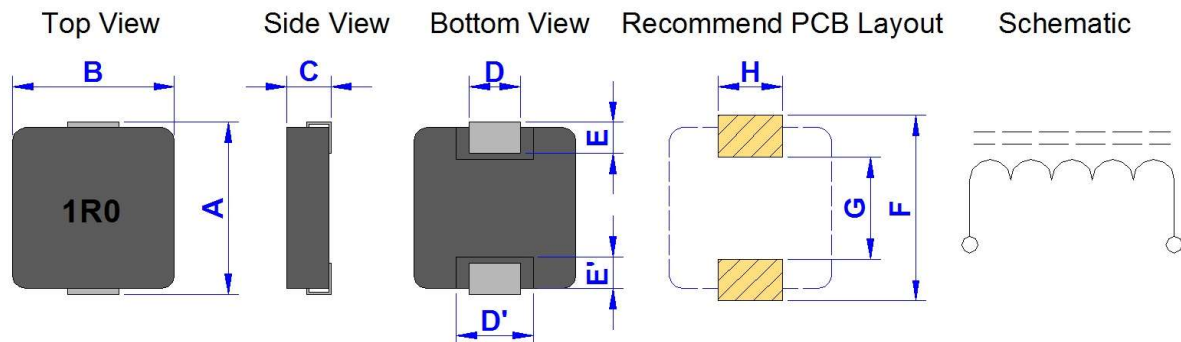
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1250PT-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.20)	C(±0.20)	D	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
1250PT	13.45	12.60	4.80	BY ITEM	6.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	14.50	8.00	5.00				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]	Size D (mm) ±0.5
GSTC1250PT-R47M	0.47	0.95/1.10	37.00/33.30	55.00/47.40	4.00
GSTC1250PT-R68M	0.68	1.34/1.55	33.00/29.50	54.00/46.00	4.00
GSTC1250PT-1R0M	1.00	1.80/2.20	26.00/23.00	36.00/32.50	4.00
GSTC1250PT-2R2M	2.20	3.98/5.00	16.00/14.50	25.00/22.00	3.00
GSTC1250PT-3R3M	3.30	5.50/7.00	15.50/14.00	22.50/19.50	3.00
GSTC1250PT-4R7M	4.70	8.50/10.30	10.50/9.50	17.20/14.50	3.00
GSTC1250PT-100M	10.00	18.90/22.00	9.00/8.10	13.00/10.50	3.00
GSTC1250PT-150M	15.00	30.00/35.00	5.80/5.20	8.00/6.80	3.00
GSTC1250PT-220M	22.00	50.00/58.00	4.50/4.10	6.60/5.70	3.00

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

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

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

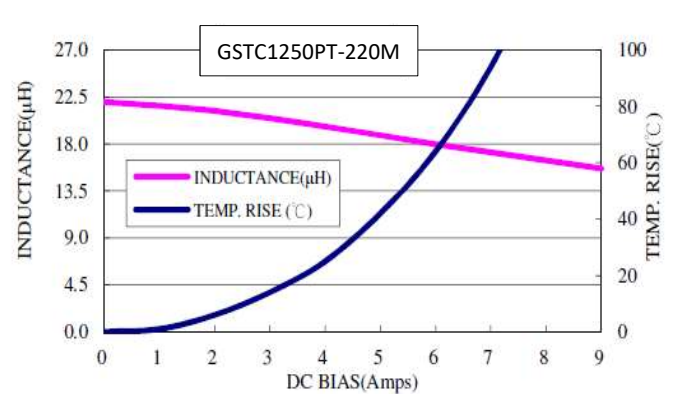
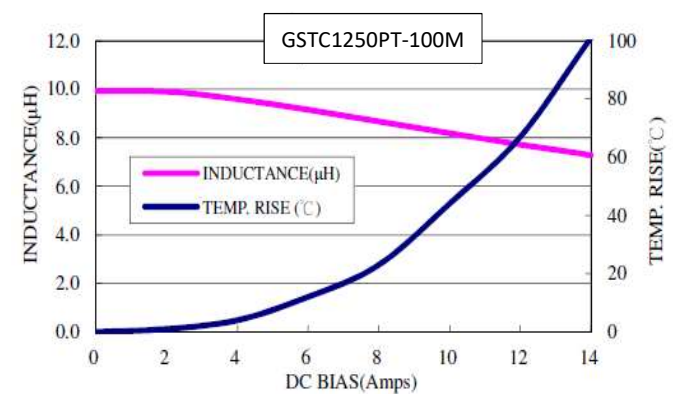
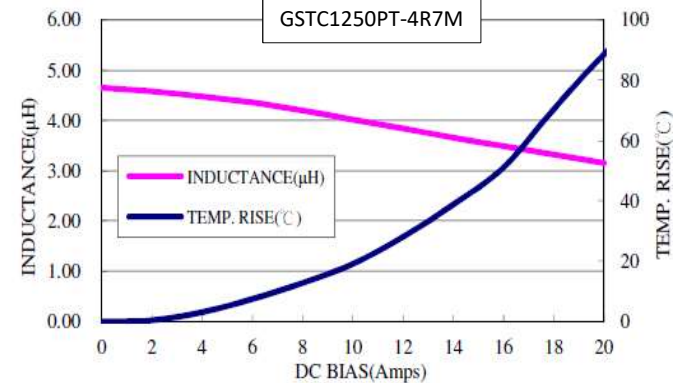
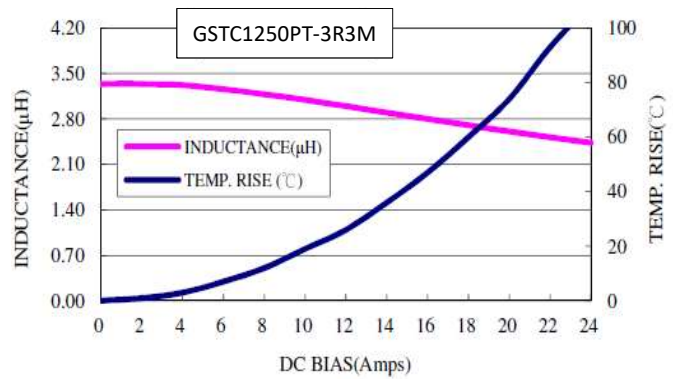
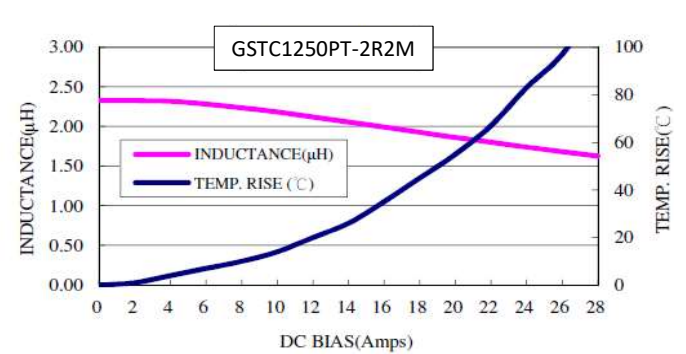
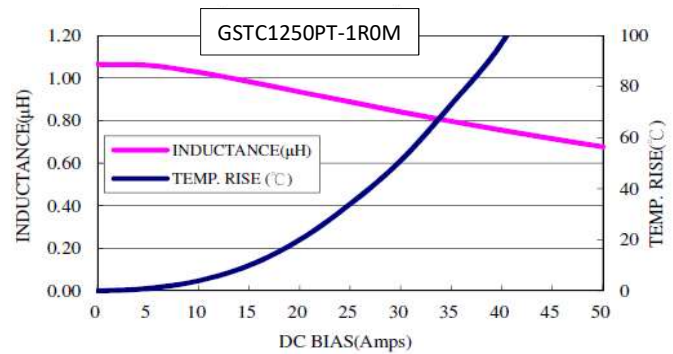
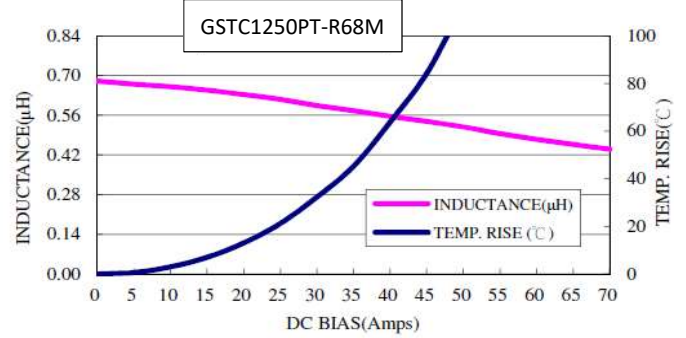
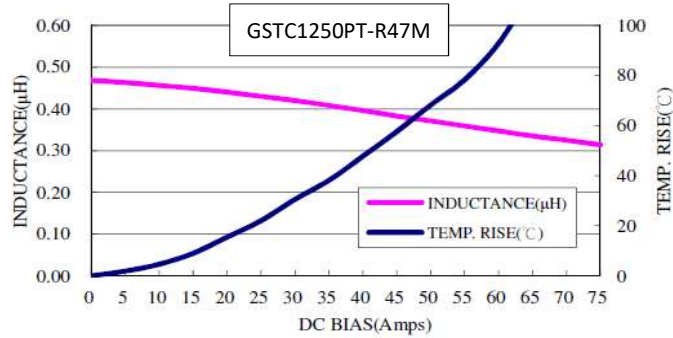
* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC
File Version :	GSTC-SERIES-V7R2
Established Date	2009.09.01
Latest Edit Date :	2023.04.20

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	High Current Inductor
Product Type :	☒ Standard ☐ Customize

GSTC1250PT-SERIES

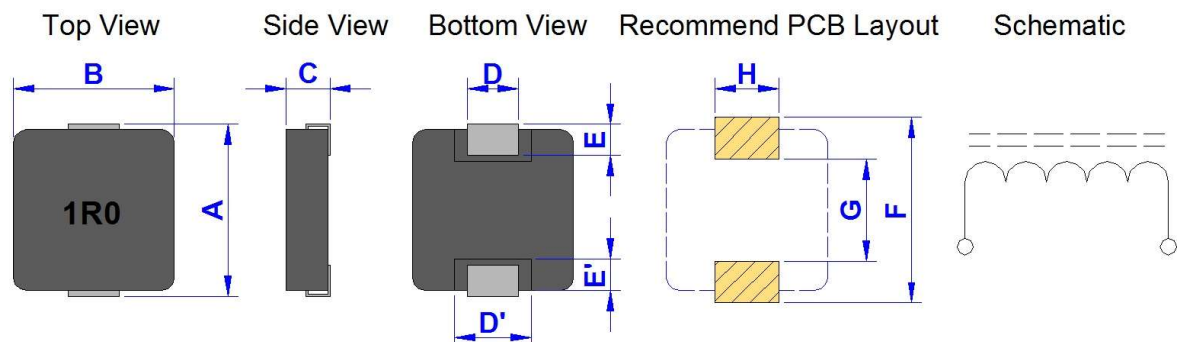
Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
File Version :	GSTC-SERIES-V7R2	Editor :	Qiuyi Wu
Established Date	2009.09.01	Description :	High Current Inductor
Latest Edit Date :	2023.04.20	Product Type :	☒ Standard ☐ Customize

GSTC1350PT-SERIES

Dimension [mm] :



Size	A(±0.35)	B(±0.20)	C(±0.20)	D	D'(+/-0.2)	E(+/-0.5)	E'(+/-0.1)
1350PT	13.45	12.60	4.80	BY ITEM	6.00	2.00	2.50
	F(Ref.)	G(Ref.)	H(Ref.)				
	14.50	8.00	5.00				

Electrical Characteristics :

Part No.	Inductance L(uH) +/- 20%	DCR (m Ohm) [Typ.] / [Max.]	Idc(Amp) [Typ.] / [Max.]	Isat (Amp) [Typ.] / [Max.]	Size D (mm) ±0.5
GSTC1350PT-R47M	0.47	1.05/1.30	38.00/34.00	75.00/65.00	4.00
GSTC1350PT-R50M	0.50	1.15/1.50	36.00/32.00	73.00/63.00	4.00
GSTC1350PT-R56M	0.56	1.30/1.50	35.00/31.00	71.00/61.00	4.00
GSTC1350PT-R68M	0.68	1.48/1.70	34.00/30.00	70.00/60.00	4.00
GSTC1350PT-R82M	0.82	1.70/2.00	31.00/28.00	65.00/55.00	4.00
GSTC1350PT-1R0M	1.00	2.05/2.50	29.00/26.00	58.00/50.00	4.00
GSTC1350PT-1R2M	1.20	2.60/3.00	25.00/22.00	52.00/44.00	4.00
GSTC1350PT-1R5M	1.50	3.30/4.10	23.50/20.50	49.00/38.00	4.00
GSTC1350PT-2R2M	2.20	4.50/5.20	20.00/18.50	36.00/32.00	3.00
GSTC1350PT-3R3M	3.30	7.50/8.60	15.00/13.50	33.00/28.40	3.00
GSTC1350PT-4R7M	4.70	12.50/15.00	12.20/10.80	28.00/23.00	3.00
GSTC1350PT-6R8M	6.80	15.00/18.50	11.00/9.00	23.00/20.00	3.00

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

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

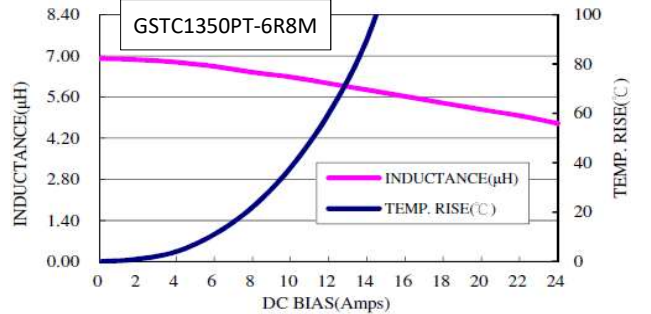
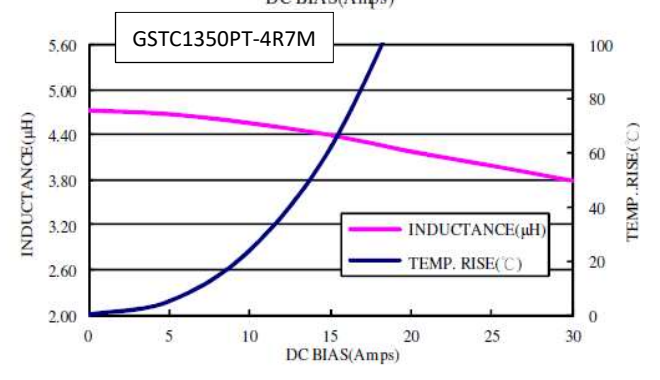
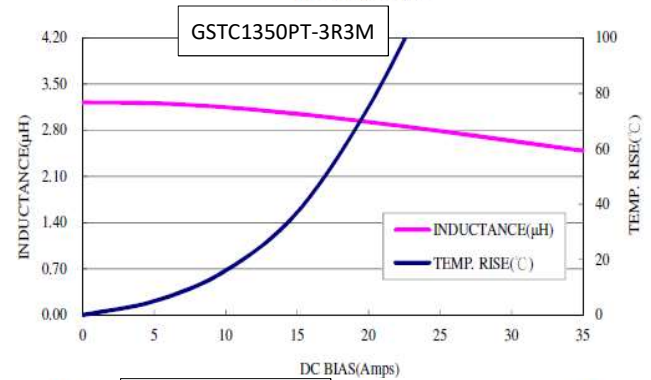
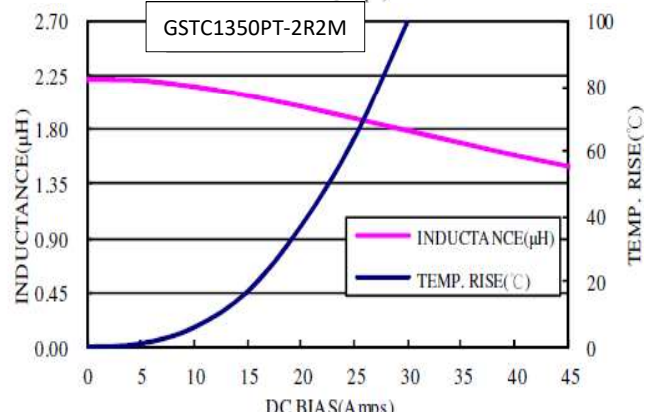
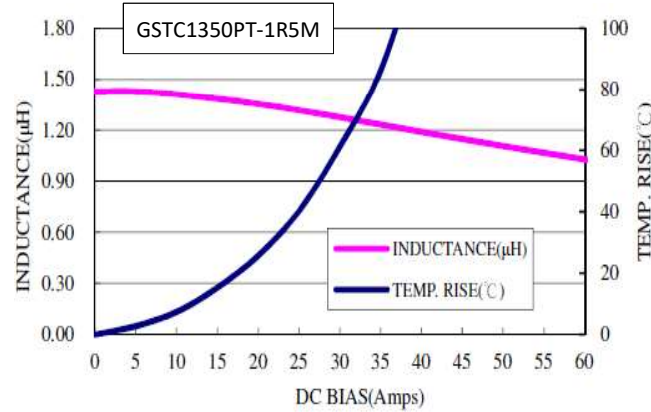
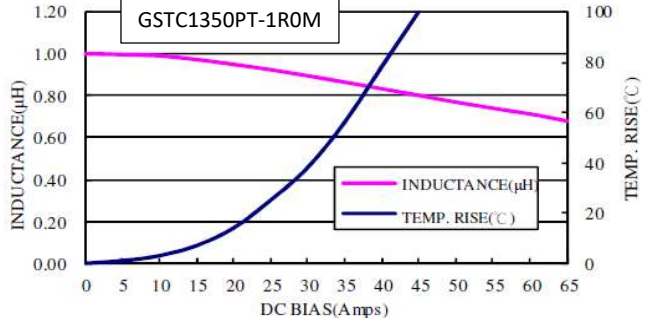
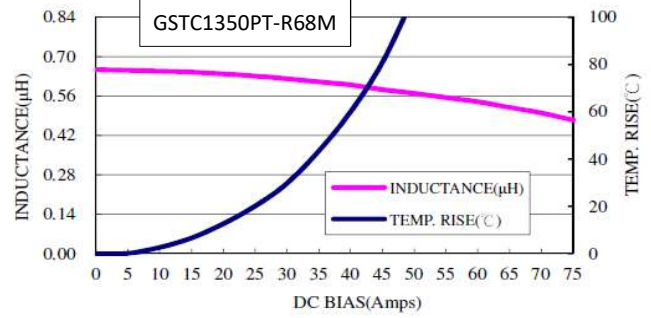
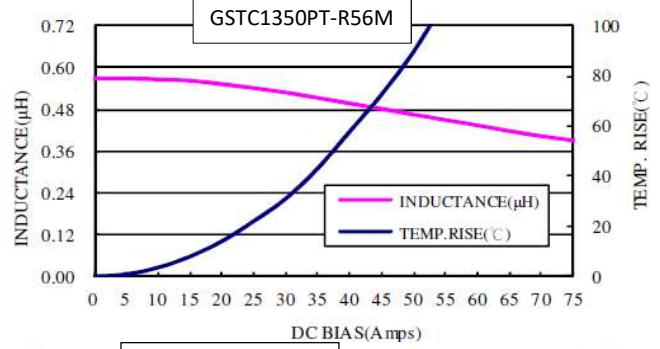
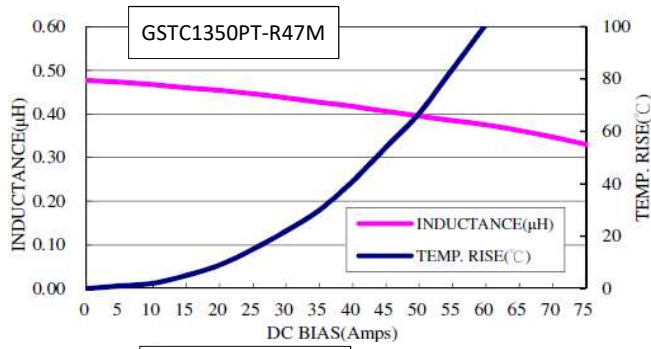
* **Isat** : DC current (A) that will cause L0 to drop approximately 30%

* **Operating Temperature Range:** -55°C to +125°C

Product Series :	GSTC	Brand :	GOTREND
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GSTC1350PT-SERIES

Current Characteristic :



Product Series :	GSTC	Brand :	GOTREND
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Established Date	2009.09.01	Description :	High Current Inductor
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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 : -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.

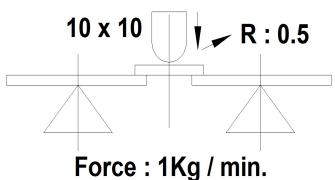
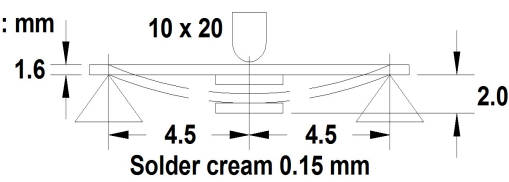
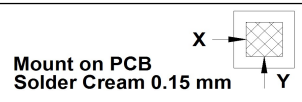
(6) Detergent :

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.



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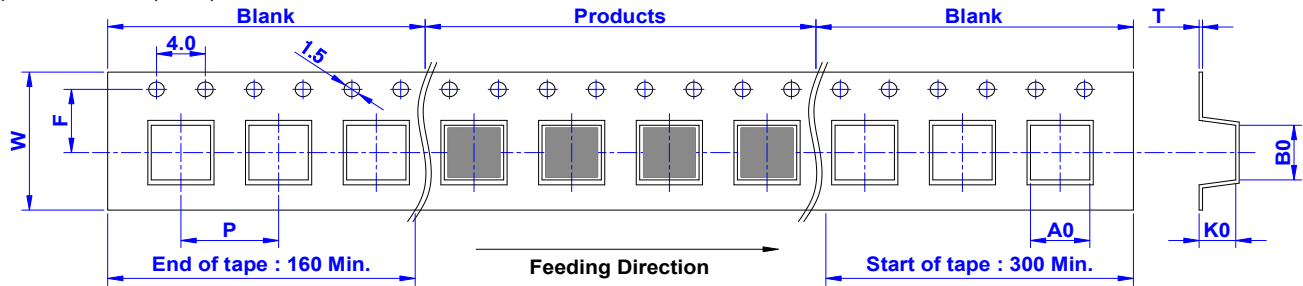
Reliability :

SN	Test Item	Test Condition	Specification
1	Dimension	Actual Size ...	Meet Spec
2	Thermal Shock (Temperature Cycle)	Temperature : -40 ~ +125 deg.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 deg.C, Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation
4	HighTemperature	Temperature : 125 ± 2 deg.C Testing Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation
5	Low Temperature	Temperature : -40 ± 2 deg.C Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation
6	Temperature and Humidity Cycle	Temperature	Elec. no variation Appearance no deformation
		Humidity	
		Time	
		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 deg.C (90 sec) Peak : 245 ± 5 deg.C Peak Time : 50 Sec. / up 217 deg.C	Elec. no variation Appearance no deformation
9	Soldering Heat Resistance	Preheat : 160 ± 10 deg.C (90 sec) Solder : Sn / Ag / Cu (Pb Free) Solder Temp. : 260 ± 5 deg.C, Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation
10	Iron Solder Heat Resistance	Solder Temp. : 350 ± 5 deg.C Flux : Rosin, Time : 3 ± 1 seconds	Elec. no variation Appearance no deformation
11	Bending Strength	Unit : mm  Force : 1Kg / min.	Elec. no variation Appearance no deformation
12	Flexure Strength	Unit : mm  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 deg.C Load : Allowed DC Current, Test Time : 96 ± 2 Hours	Elec. no variation Appearance no deformation

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Packaging Information :

Tape Dimension (mm)

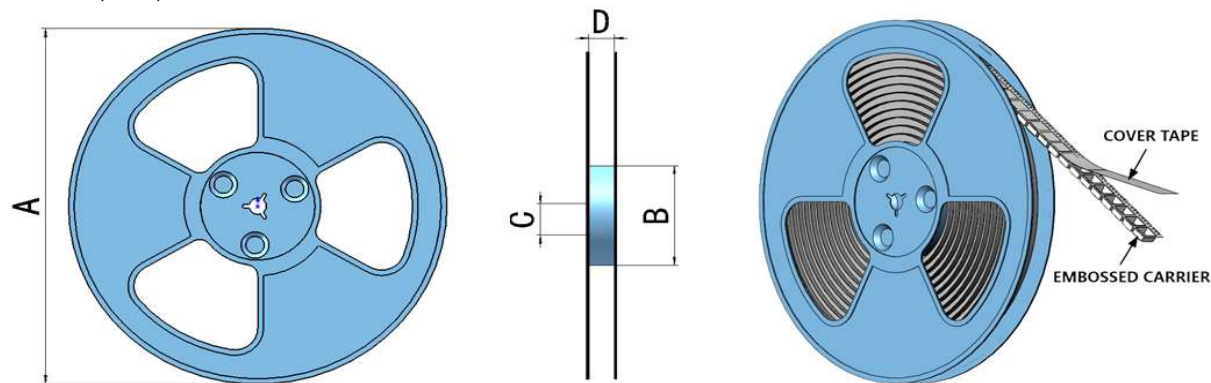


SIZE/mm	W	P	A0	B0	K0	T	F
201610	8.00	4.00	1.80	2.20	1.20	0.23	3.50
252012	8.00	4.00	2.27	2.74	1.40	0.23	3.50
042	12.00	8.00	4.20	4.50	2.50	0.30	5.50
053	16.00	12.00	5.20	5.50	3.75	0.30	7.50
061	16.00	12.00	7.00	7.50	2.55	0.30	7.50
063	16.00	12.00	7.00	7.50	3.60	0.30	7.50
064	16.00	12.00	7.00	7.50	4.50	0.30	7.50
104	24.00	16.00	10.60	12.00	4.50	0.35	11.50
133	24.00	16.00	13.50	14.20	3.85	0.35	11.50
135	24.00	16.00	13.50	14.20	5.20	0.35	11.50
4020PT	12.00	8.00	4.40	4.70	2.50	0.30	5.50
5018PH	12.00	8.00	5.60	5.90	2.30	0.35	5.50
6015PE	16.00	12.00	7.20	7.50	2.30	0.30	7.50
6018PH	16.00	12.00	7.20	7.50	2.30	0.30	7.50
6030PT	16.00	12.00	7.20	7.50	3.60	0.30	7.50
6040PT	16.00	12.00	7.20	7.80	4.30	0.35	7.50
1030PT	24.00	16.00	10.70	12.00	4.00	0.30	11.50
1040PB	24.00	16.00	10.70	12.00	4.50	0.35	11.50
1040PL	24.00	16.00	10.70	12.00	4.50	0.35	11.50
1040PS	24.00	16.00	10.70	12.00	4.50	0.35	11.50
1040PT	24.00	16.00	10.70	12.00	4.50	0.35	11.50
1045PE	24.00	16.00	10.70	12.00	5.00	0.35	11.50
1235PE	24.00	16.00	13.40	14.10	3.70	0.35	11.50
1250PT	24.00	16.00	13.40	14.10	5.10	0.35	11.50
1350PT	24.00	16.00	13.40	14.10	5.10	0.35	11.50

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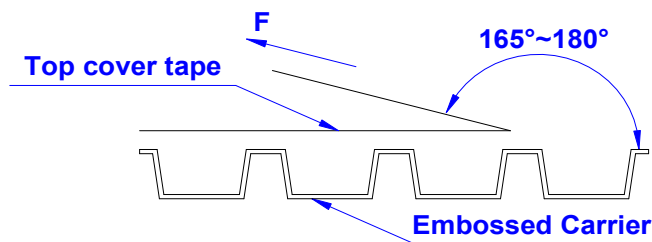
Packaging Information :

Reel Dimension (mm)



SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
201610	7" x 8 mm	178	60	13	8.5	2,000 PCS
252012	7" x 8 mm	178	60	13	8.5	2,000 PCS
042	13" x 12 mm	330	100	13	12.5	2,000 PCS
053	13" x 16 mm	330	100	13	16.5	1,000 PCS
061	13" x 16 mm	330	100	13	16.5	1,000 PCS
063	13" x 16 mm	330	100	13	16.5	1,000 PCS
064	13" x 16 mm	330	100	21	16.5	1,000 PCS
104	13" x 24 mm	330	100	13	24.5	500 PCS
133	13" x 24 mm	330	100	13	24.5	500 PCS
135	13" x 24 mm	330	100	13	24.5	500 PCS
4020PT	13" x 12 mm	330	100	13	12.5	2,000 PCS
5018PH	13" x 12 mm	330	100	13	12.5	3,000 PCS
6015PE	13" x 16 mm	330	100	13	16.0	1,000 PCS
6018PH	13" x 16 mm	330	100	13	16.0	1,000 PCS
6030PT	13" x 16 mm	330	100	13	16.0	1,000 PCS
6040PT	13" x 16 mm	330	100	13	16.0	500 PCS
1030PT	13" x 24 mm	330	100	13	24.5	500 PCS
1040PB	13" x 24 mm	330	100	13	24.5	500 PCS
1040PL	13" x 24 mm	330	100	13	24.5	500 PCS
1040PS	13" x 24 mm	330	100	13	24.5	500 PCS
1040PT	13" x 24 mm	330	100	13	24.5	500 PCS
1045PE	13" x 24 mm	330	100	13	24.5	500 PCS
1235PE	13" x 24 mm	330	100	13	24.5	500 PCS
1250PT	13" x 24 mm	330	100	13	24.5	500 PCS
1350PT	13" x 24 mm	330	100	13	24.5	500 PCS

Tearing Off Force



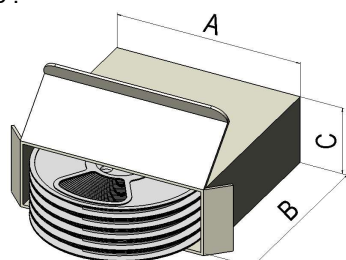
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

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

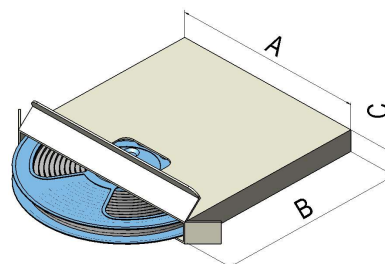
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Packaging Information :

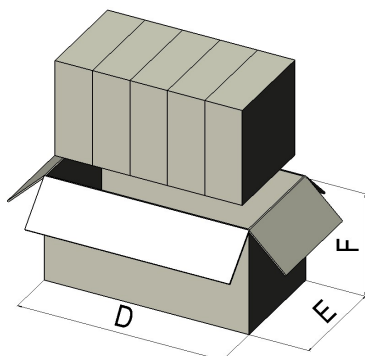
Box Package :



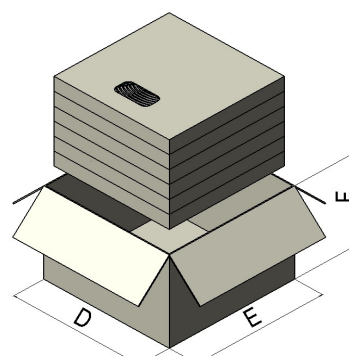
7" Small Box



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)
201610	7"	190	195	75	7"	408	210	220	5(10,000)	5(50,000)
252012	7"	190	195	75	7"	408	210	220	5(10,000)	5(50,000)
042	13"	335	335	40	13"	350	350	220	2(4,000)	5(20,000)
053	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
061	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
063	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
064	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
104	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
133	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
135	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
4020PT	13"	335	335	40	13"	350	350	220	2(4,000)	5(20,000)
5018PH	13"	335	335	40	13"	350	350	220	2(6,000)	5(30,000)
6015PE	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
6018PH	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
6030PT	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
6040PT	13"	335	335	23	13"	350	350	220	1(500)	7(3,500)
1030PT	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1040PB	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1040PL	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1040PS	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1040PT	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1045PE	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1235PE	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1250PT	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1350PT	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)