



Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

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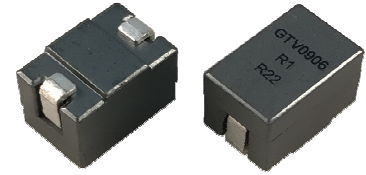
- (1) Aerospace/Aviation equipment
- (2) Atomic energy-related equipment
- (3) Disaster prevention/crime prevention equipment
- (4) Electric heating apparatus, burning equipment
- (5) Medical equipment
- (6) Military equipment
- (7) Power-generation control equipment
- (8) Public information-processing 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. 

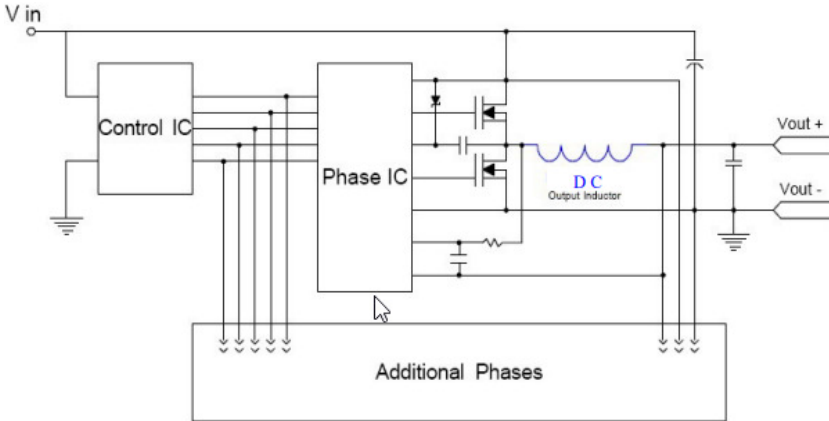
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Features & Application :

- * Portable electronics
- * Servers and workstations
- * Data networking and storage systems
- * Notebook and desktop computers
- * Graphics cards and battery power systems
- * Multi-phase regulators
- * Voltage Regulator Module (VRM)
- * DCR sensing



(Picture for reference only)



Basic Information :

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

Part No. Example :

PN	:	GTV 986480	P	[]	-	R10	K
ID	:	1	2	3	4	5	6
1	:	GOTREND Series : GTV					
2	:	Dimension Code : 9.8 x 6.4 x 8.0 mm					
3	:	P = Pb free < 1000 ppm					
4	:	[R1 ~ R□] : Different DCR Spec. ; [V] : Vertical type					
5	:	[L] Value Ex : R10 = 0.10 uH ; 72N = 0.72 uH					
6	:	Tolerance : K = +/-10%					

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



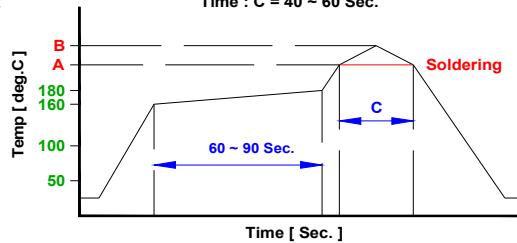
- * Pin foot or SMD pad solderability: Pb free type is best within 6 months after delivery
- * Humidity sensitive , IPC/JEDEC J-STD-020 MSL if over Level 1, recommend bake 30mins@150 degree before PCBA
- * Caution for human life relative applications : PLS contact & consult with GOTREND team in design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

Test Condition :

- * Equipment HP4284A , HP42841A - L , Q , DCR , IDC
HP8753D Network analyzer - SRF
- * Standard Atmosphere Conditions:
Ambient Temperature 20 ± 15 °C
Humidity RH 65 ± 20%
- * If there may be any doubt on the test result ,
Measurement shall be made within the following limits:
Ambient Temperature 25 ± 5 °C
Humidity RH 75 ± 10%

Recommend IR Reflow Curve : GTX-IR-FILE001


















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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SMD Power Inductor - GTV Series Type

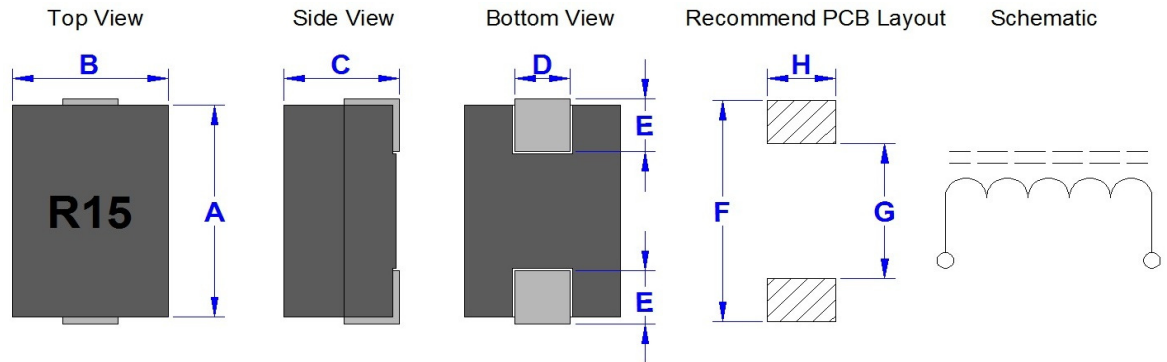
Image	Part Name	L (mm) Max.	W (mm) Max.	H (mm) Max.	Inductance Range (nH)			DCR (m Ohm)	Isat (A) Max.		Irms (A) Max.	Page	
					1	100	1000		@25°C 16~50	@125°C 13~27			
	GTV746632PR1	7.35	6.6	3.18	80	150		1.35 +/- 10%	@25°C 16~50	@125°C 13~27	28	5-6	
	GTV707050PR1	7.0	7.0	4.95	72	226		0.25 +/- 8%	@25°C 20~65	@125°C 16~50	43.0	7-8	
	GTV707050PR2	7.0	7.0	4.95	72	226		0.32 +/- 7%	@25°C 20~65	@125°C 16~50	38.0	9-10	
	GTV707050PR3	7.0	7.0	4.95	72	226		0.46 +/- 6%	@25°C 20~65	@125°C 16~50	32.0	11-12	
	GTV808050PR1	7.62	7.49	4.96	32	200		0.25 +/- 8%	@25°C 20~110	@125°C 16~95	43.0	13-14	
	GTV966610PHL	9.6	6.6	10.1	70	220		0.12	46.0 ~ 145.0		84.0	15	
	GTV986480PR1	9.8	6.4	8	100	300		0.29 +/- 5%	32.5 ~ 94.0		51.0	16-17	
	GTV107049PR1	10.4	7.0	4.95	80	220		0.39 +/- 7.5%	33.0 ~ 90.0		53.0	18-19	
	GTV107049PR2	10.4	7.0	4.95	80	220		0.47 +/- 6.5%	33.0 ~ 90.0		50.0	20-21	
	GTV107049PR3	10.4	7.0	4.95	80	220		0.55 +/- 5.4%	33.0 ~ 90.0		50.0	22-23	
	GTV107049PR4	10.4	7.0	4.95	80	220		0.31 +/- 7%	33.0 ~ 90.0		50.0	24-25	
	GTV108070PR1	10.6	8.0	7.0	120	470		0.29 +/- 5.0%	23.5 ~ 94.0		61.0	26-27	
	GTV108085PR1	10.4	8.2	8.2	100	300		0.12 Typ.	0.13 Max.	36.0 ~ 109.0		70.0	28
	GTV108080PR1	10.4	8.0	8.0	120	220		0.18 +/- 5%	@25°C 51~95	@125°C 47~77	68.0	29-30	
	GTV117070PR1	11.4	7.2	7.2	120	510		0.29 +/- 5%	@25°C 18~90	@125°C 14.5~72	55.0	31-32	
	GTV117070PR2	11.4	7.2	7.5	120	510		0.47 +/- 6%	@25°C 18~90	@125°C 14.5~72	42.0	33-34	
	GTV128080PR1	12.2	8.1	8.0	150	250		0.29 +/- 5.0%	55.0 ~ 85.0		50.0	35-36	

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Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV746632PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
7.35	6.60	3.18	2.80	1.65	7.65	3.35	3.25

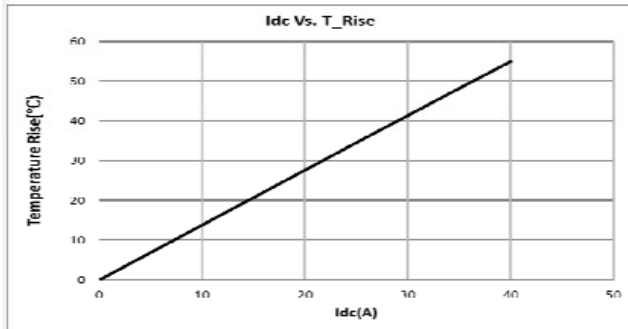
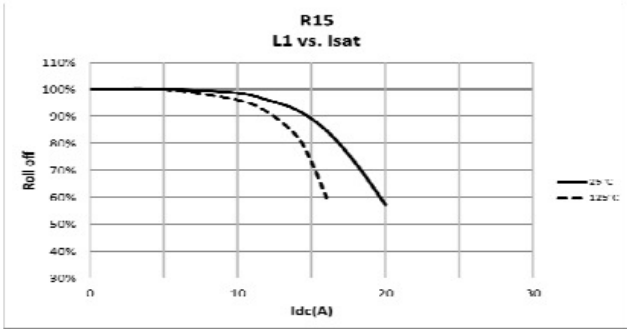
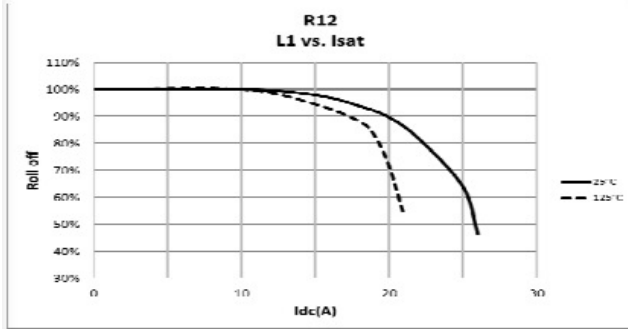
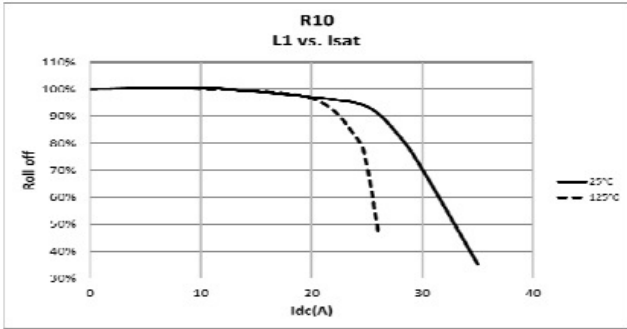
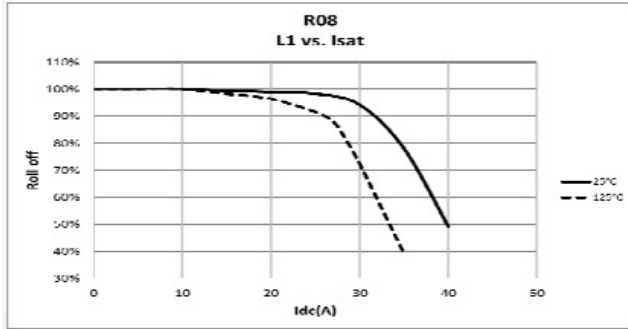
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV746632PR1-R08	80	+/-10%	100K / 0.1V	1.35 +/- 10%	32.0	27.0	28.0
GTV746632PR1-R10	100	+/-10%	100K / 0.1V	1.35 +/- 10%	27.0	23.0	28.0
GTV746632PR1-R12	120	+/-10%	100K / 0.1V	1.35 +/- 10%	22.0	19.0	28.0
GTV746632PR1-R15	150	+/-10%	100K / 0.1V	1.35 +/- 10%	16.0	13.0	28.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

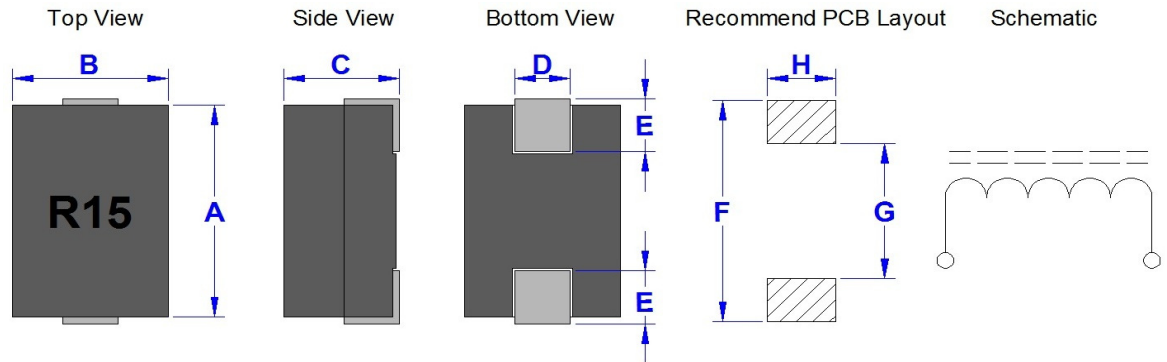


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Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV707050PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
7.00	7.00	4.95	2.45	1.52	7.4	3.35	3.10

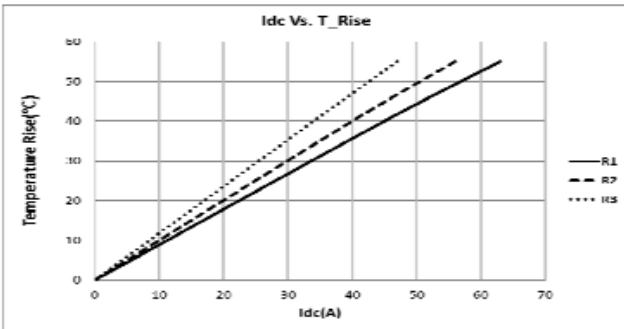
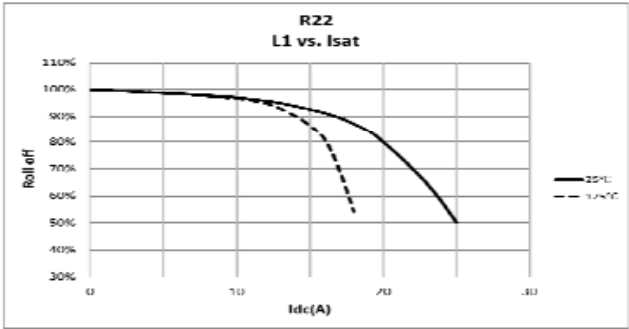
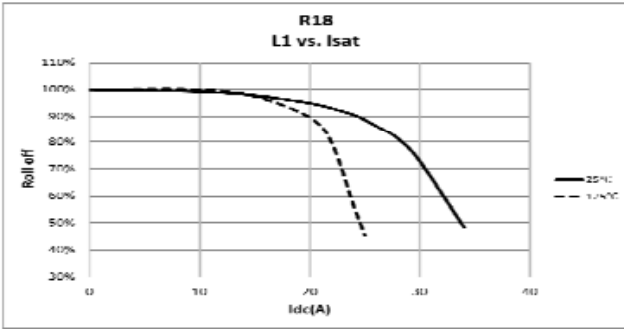
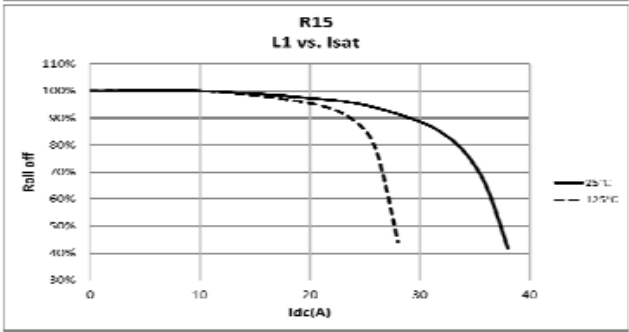
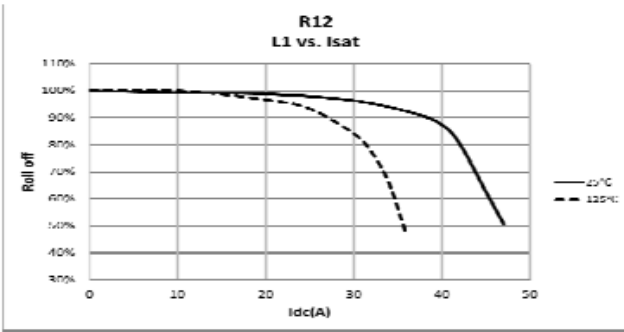
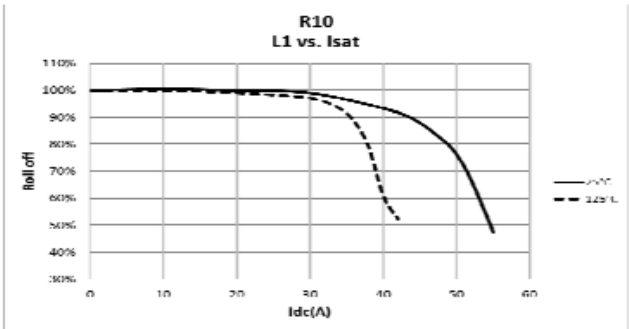
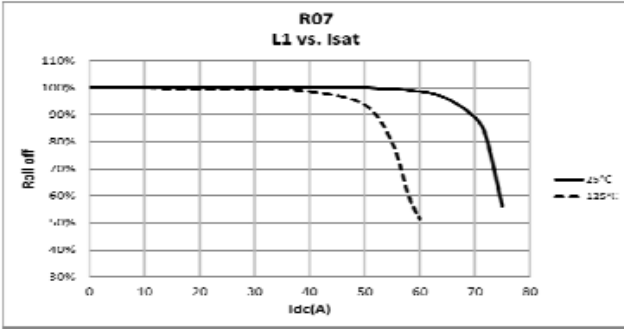
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV707050PR1-R07	72	+/-10%	100K / 0.1V	0.25 +/- 8%	65.0	50.0	43.0
GTV707050PR1-R10	105	+/-10%	100K / 0.1V	0.25 +/- 8%	44.0	34.0	43.0
GTV707050PR1-R12	120	+/-10%	100K / 0.1V	0.25 +/- 8%	37.0	30.0	43.0
GTV707050PR1-R15	150	+/-10%	100K / 0.1V	0.25 +/- 8%	30.0	24.0	43.0
GTV707050PR1-R18	180	+/-10%	100K / 0.1V	0.25 +/- 8%	25.0	20.0	43.0
GTV707050PR1-R22	226	+/-10%	100K / 0.1V	0.25 +/- 8%	20.0	16.0	43.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

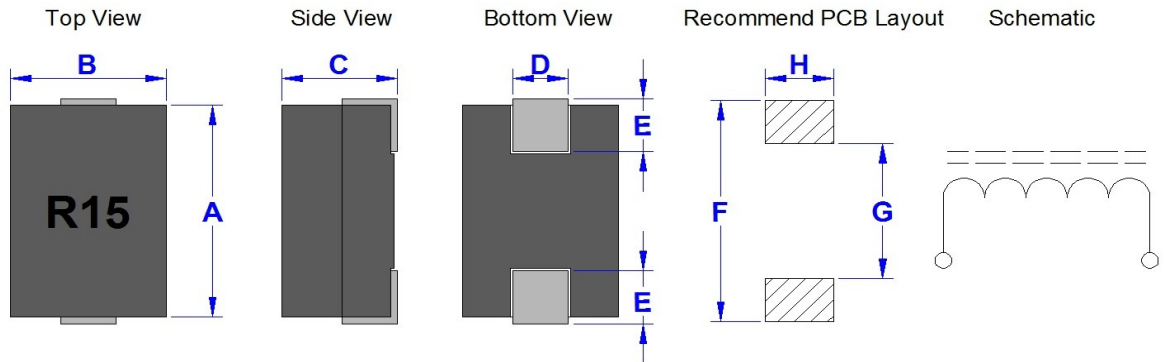
* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).



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GTV707050PR2-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
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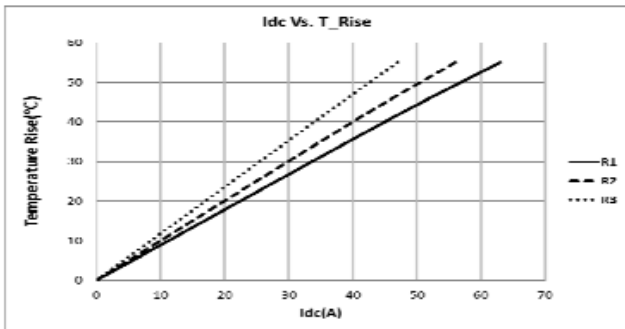
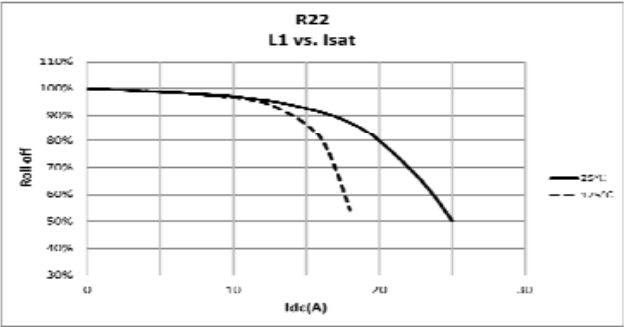
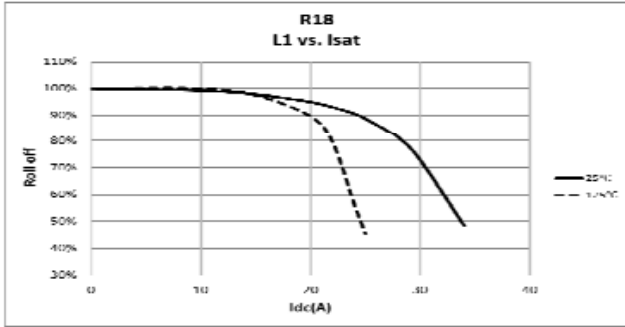
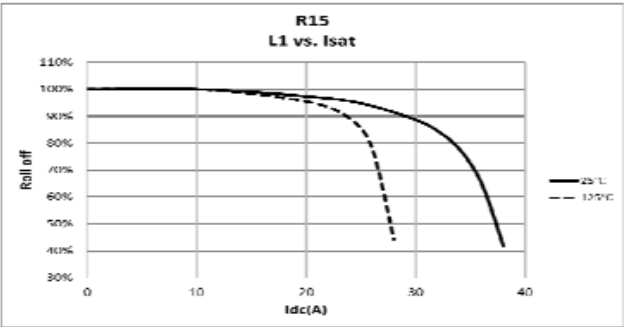
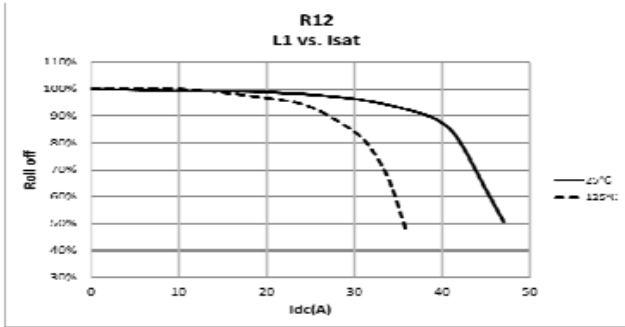
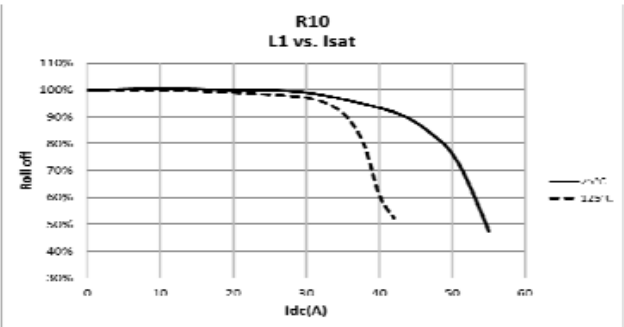
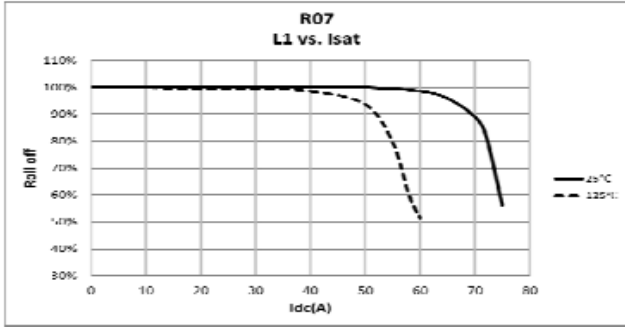
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV707050PR2-R07	72	+/-10%	100K / 0.1V	0.32 +/- 7%	65.0	50.0	38.0
GTV707050PR2-R10	105	+/-10%	100K / 0.1V	0.32 +/- 7%	44.0	34.0	38.0
GTV707050PR2-R12	120	+/-10%	100K / 0.1V	0.32 +/- 7%	37.0	30.0	38.0
GTV707050PR2-R15	150	+/-10%	100K / 0.1V	0.32 +/- 7%	30.0	24.0	38.0
GTV707050PR2-R18	180	+/-10%	100K / 0.1V	0.32 +/- 7%	25.0	20.0	38.0
GTV707050PR2-R22	226	+/-10%	100K / 0.1V	0.32 +/- 7%	20.0	16.0	38.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

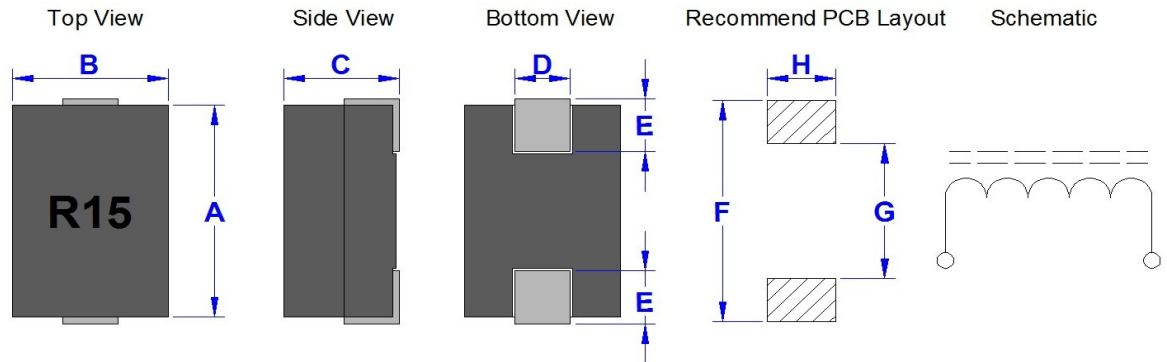


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GTV707050PR3-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
7.00	7.00	4.95	2.45	1.52	7.4	3.35	3.10

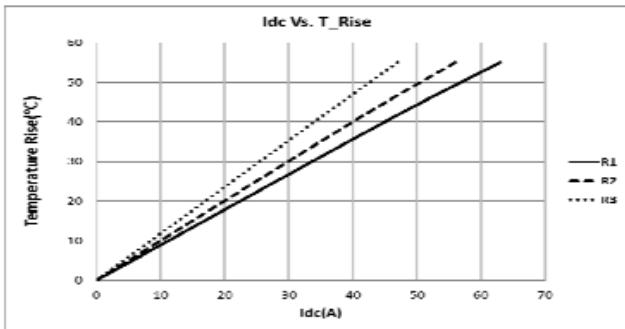
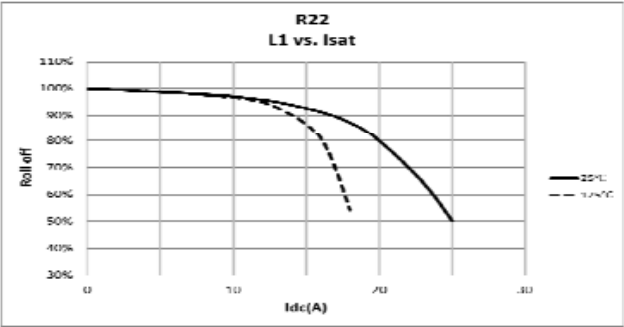
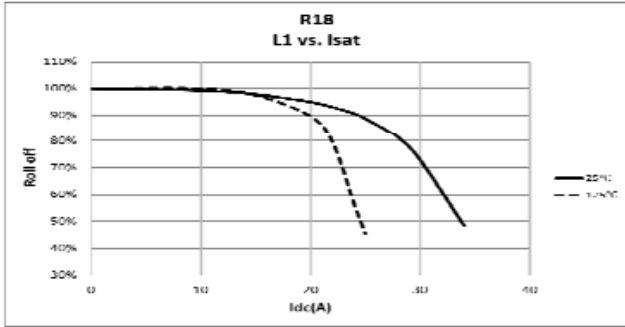
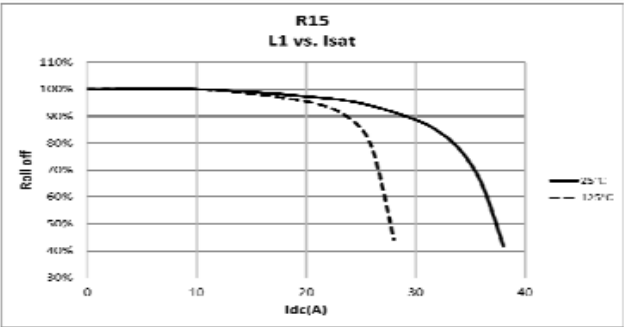
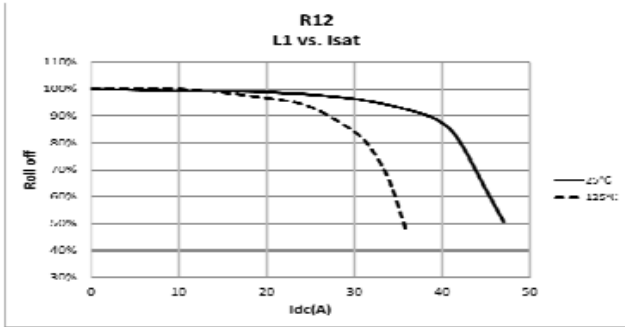
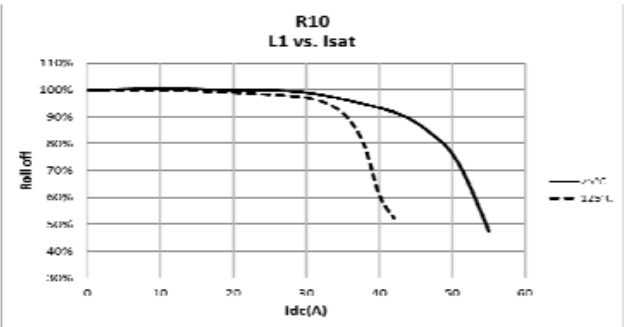
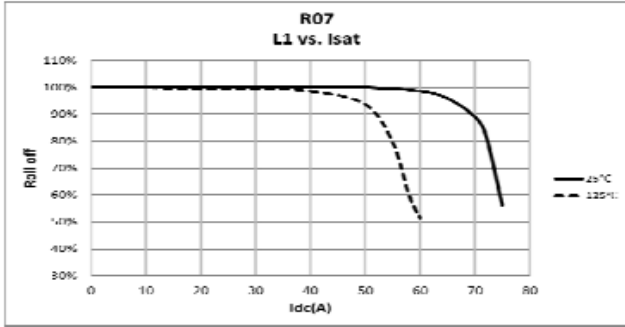
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV707050PR3-R07	72	+/-10%	100K / 0.1V	0.46 +/- 6%	65.0	50.0	32.0
GTV707050PR3-R10	105	+/-10%	100K / 0.1V	0.46 +/- 6%	44.0	34.0	32.0
GTV707050PR3-R12	120	+/-10%	100K / 0.1V	0.46 +/- 6%	37.0	30.0	32.0
GTV707050PR3-R15	150	+/-10%	100K / 0.1V	0.46 +/- 6%	30.0	24.0	32.0
GTV707050PR3-R18	180	+/-10%	100K / 0.1V	0.46 +/- 6%	25.0	20.0	32.0
GTV707050PR3-R22	226	+/-10%	100K / 0.1V	0.46 +/- 6%	20.0	16.0	32.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

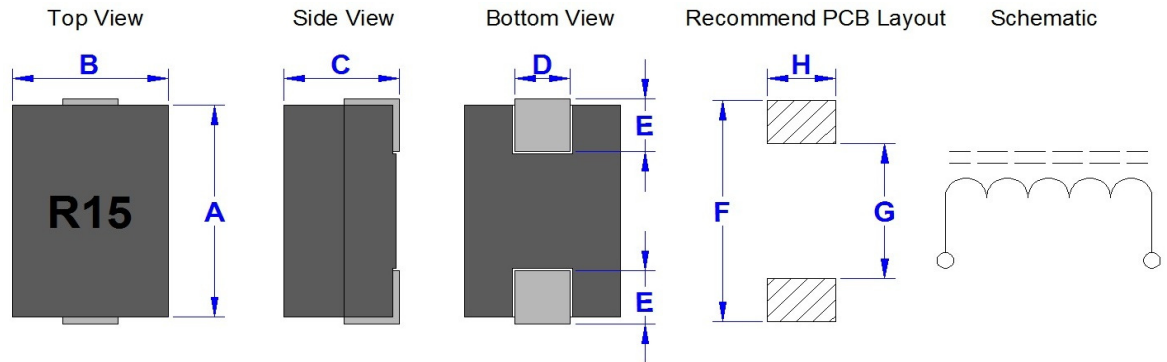


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV808050PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
7.62	7.49	4.96	3.12	2.16	8.0	2.40	3.43

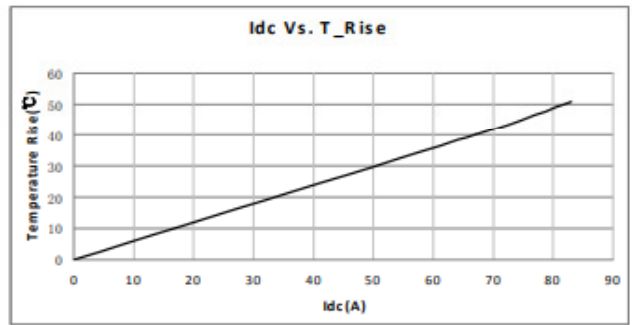
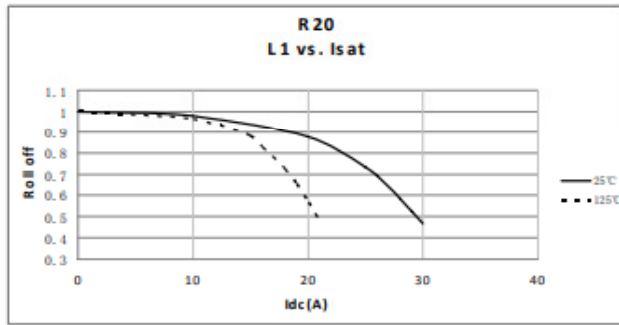
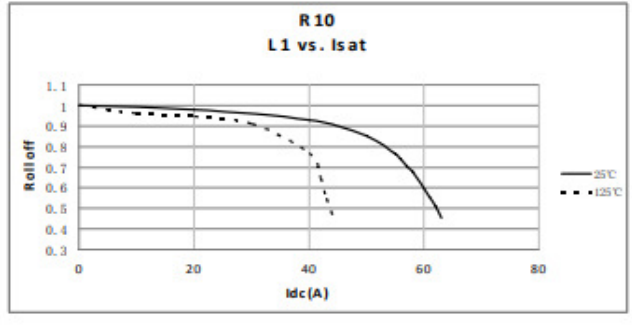
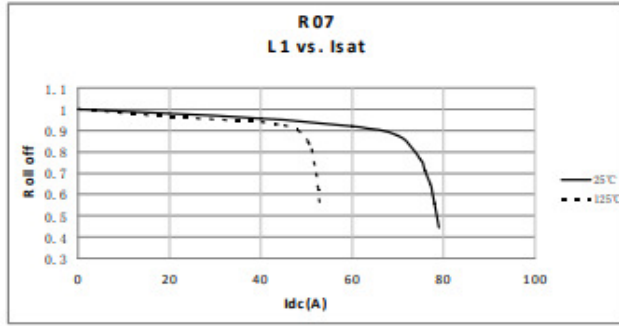
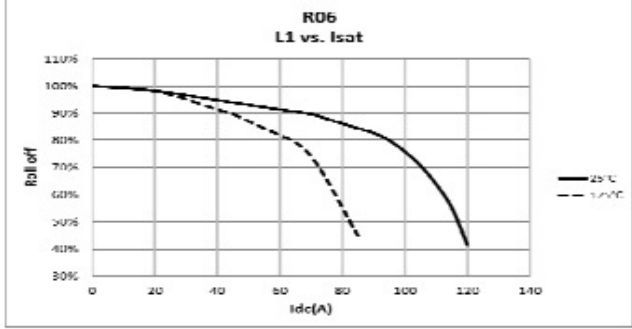
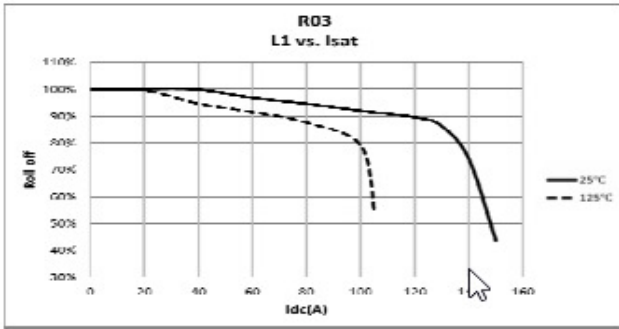
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV808050PR1-R03	32	+/-20%	100K / 0.1V	0.25 +/- 8%	110.0	95.0	43.0
GTV808050PR1-R06	58	+/-15%	100K / 0.1V	0.25 +/- 8%	83.0	61.0	43.0
GTV808050PR1-R07	72	+/-10%	100K / 0.1V	0.25 +/- 8%	67.0	49.0	43.0
GTV808050PR1-R10	100	+/-10%	100K / 0.1V	0.25 +/- 8%	50.0	35.0	43.0
GTV808050PR1-R20	200	+/-10%	100K / 0.1V	0.25 +/- 8%	20.0	16.0	43.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

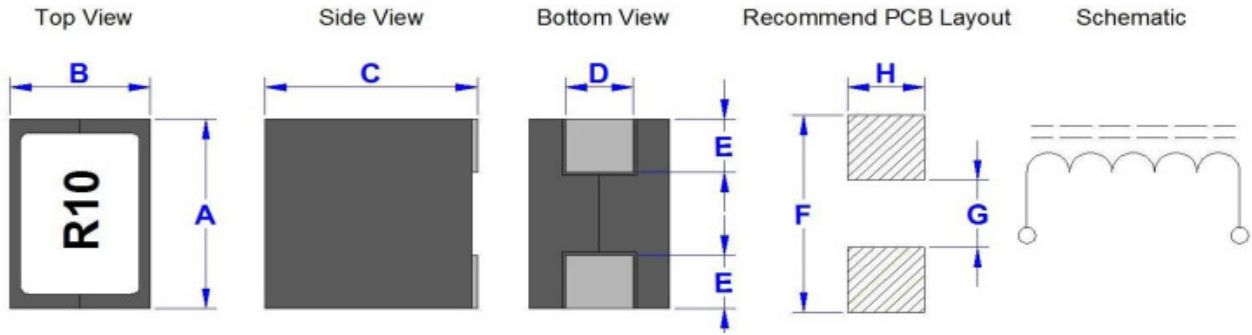
* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).



Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV966610PHL-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
9.60	6.60	10.10	3.20	2.70	10.0	3.40	3.60

Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	DCR (m Ohm) Max.	Isat (A) Typ.	Irms (A) Typ.
GTV966610PHL-R07K	70	+/-10%	0.12	145.0	84.0
GTV966610PHL-R10K	100	+/-10%	0.12	108.0	84.0
GTV966610PHL-R12K	120	+/-10%	0.12	85.0	84.0
GTV966610PHL-R15K	150	+/-10%	0.12	67.0	84.0
GTV966610PHL-R22K	220	+/-10%	0.12	46.0	84.0

* All test data is referenced to 25°C ambient.

* Test Condition @100KHz , 1.0Vrms

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

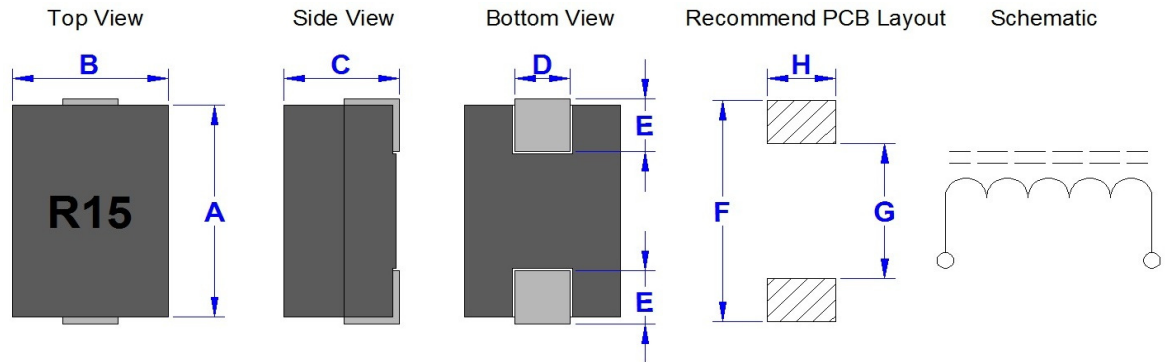
* Irms (A) current will cause coil temperature rise approximately up 40 °C without core loss.

Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV986480PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.15)	E (+/-0.3)	F (Ref.)	G (Ref.)	H (Ref.)
9.80	6.40	8.00	2.14	2.30	10.4	4.00	2.54

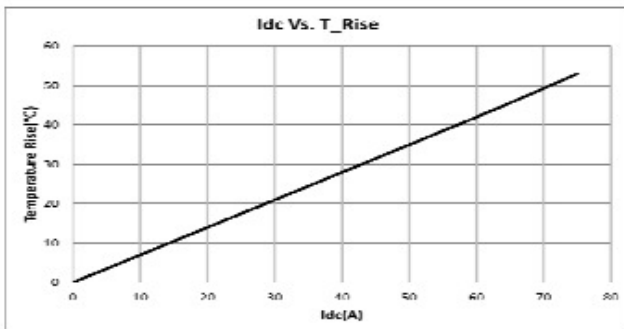
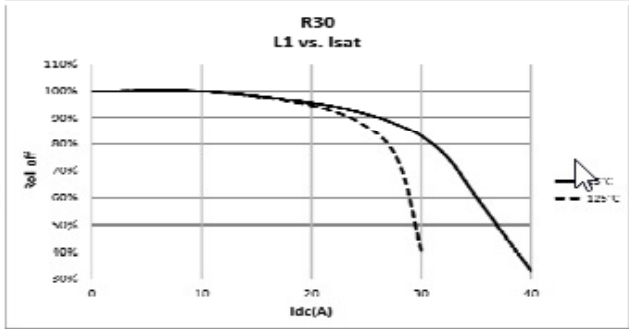
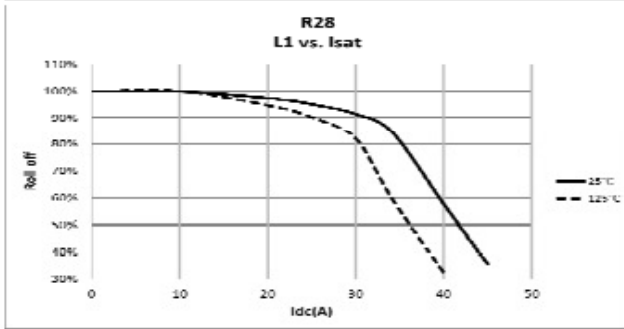
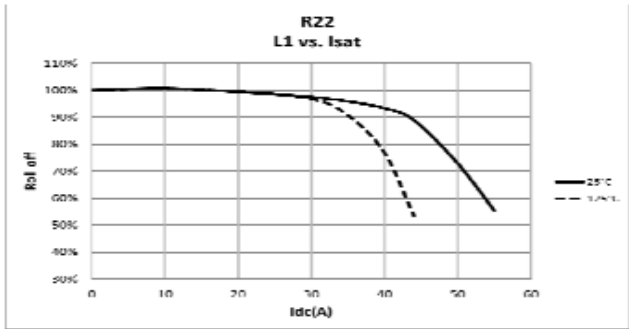
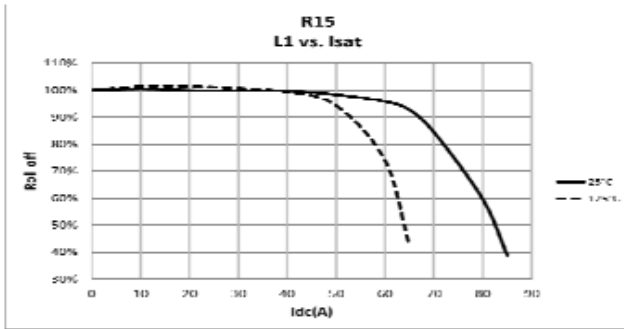
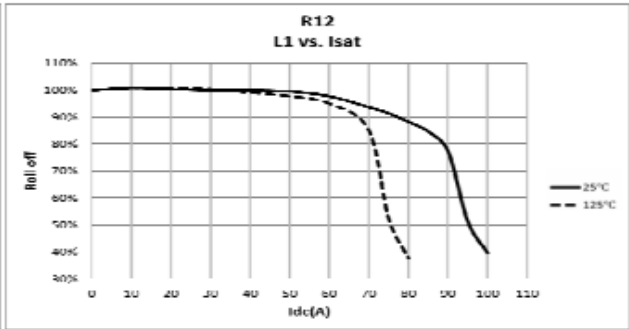
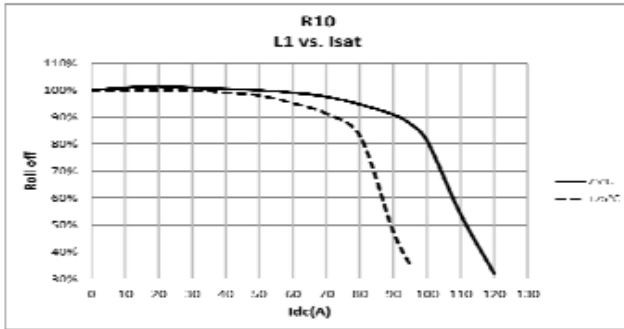
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV986480PR1-R10K	100	+/-10%	100K / 0.1V	0.29 +/- 5%	94.0	51.0
GTV986480PR1-R12K	120	+/-10%	100K / 0.1V	0.29 +/- 5%	79.0	51.0
GTV986480PR1-R15K	150	+/-10%	100K / 0.1V	0.29 +/- 5%	65.0	51.0
GTV986480PR1-R22K	220	+/-10%	100K / 0.1V	0.29 +/- 5%	44.0	51.0
GTV986480PR1-R28K	280	+/-10%	100K / 0.1V	0.29 +/- 5%	34.0	51.0
GTV986480PR1-R30K	300	+/-10%	100K / 0.1V	0.29 +/- 5%	32.5	51.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

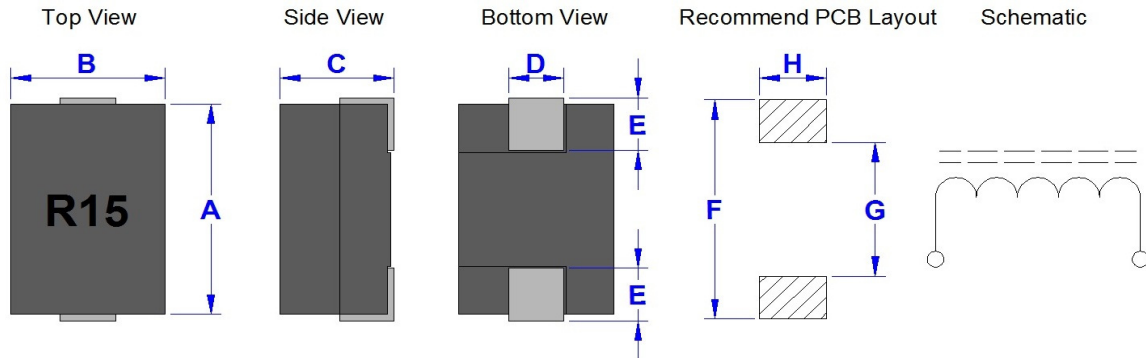
* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).



Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV107049PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.4	7.00	4.95	2.50	1.52	10.35	6.35	3.10

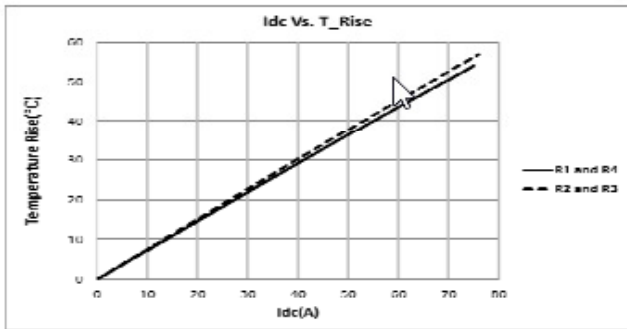
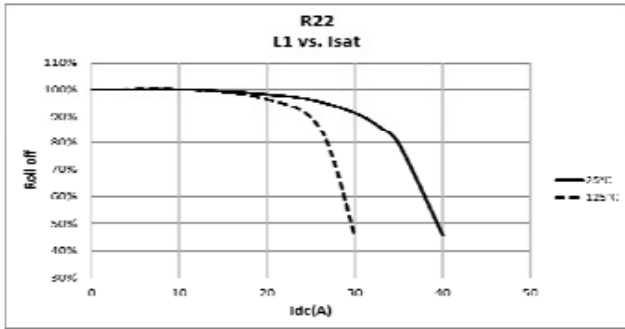
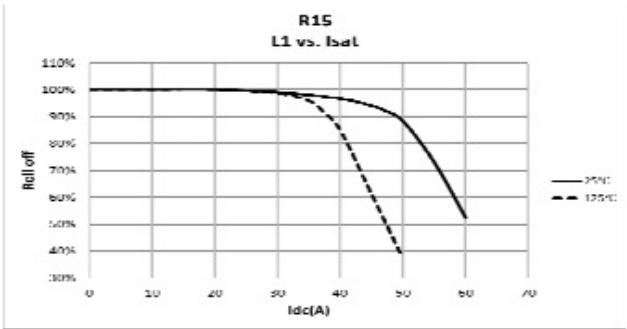
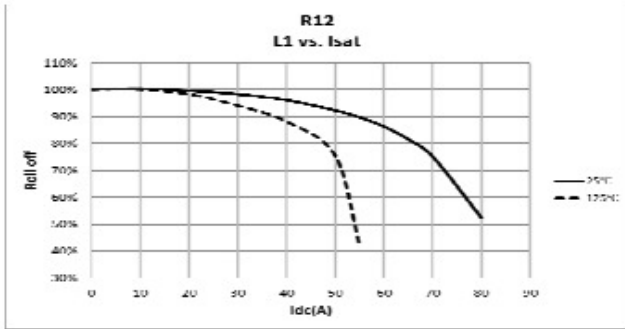
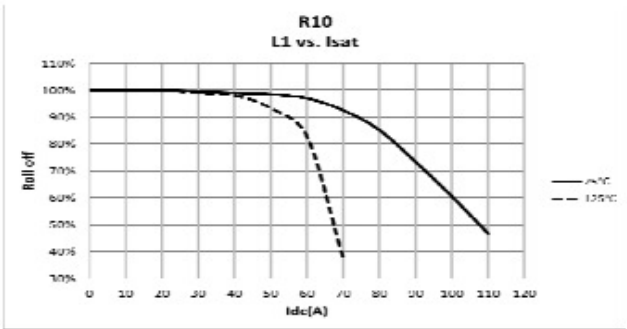
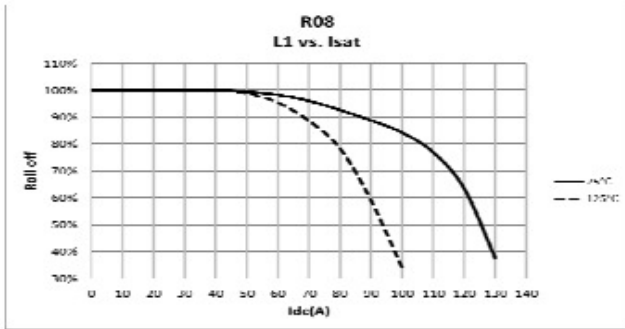
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV107049PR1-R08K	80	+/-10%	100K / 0.1V	0.39 +/- 7.5%	90.0	53.0
GTV107049PR1-R10K	100	+/-10%	100K / 0.1V	0.39 +/- 7.5%	73.0	53.0
GTV107049PR1-R12K	120	+/-10%	100K / 0.1V	0.39 +/- 7.5%	60.0	53.0
GTV107049PR1-R15K	150	+/-10%	100K / 0.1V	0.39 +/- 7.5%	47.0	53.0
GTV107049PR1-R22K	220	+/-10%	100K / 0.1V	0.39 +/- 7.5%	33.0	53.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

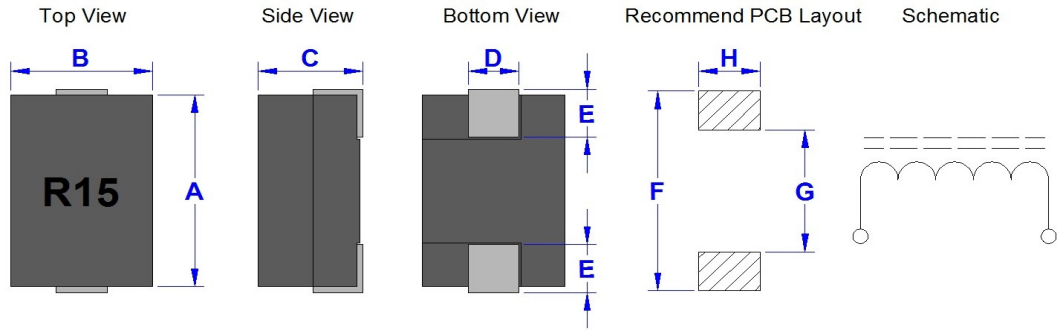
* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).



Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV107049PR2-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.4	7.00	4.95	2.50	1.52	10.35	6.35	3.10

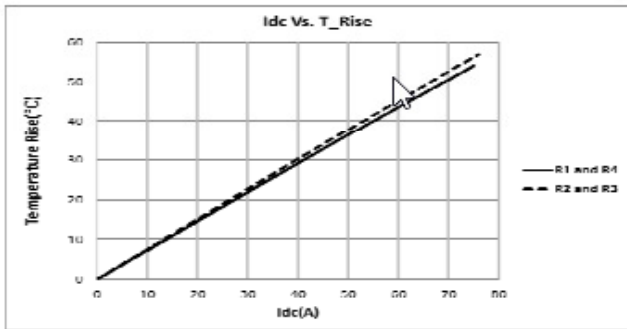
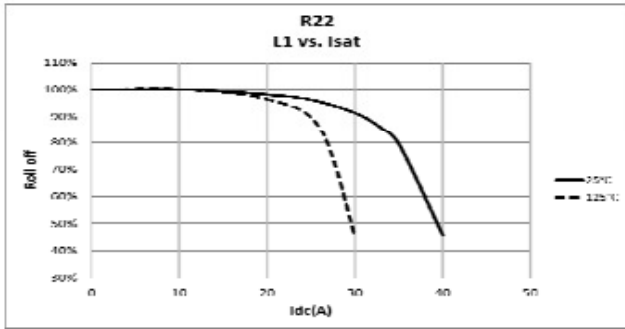
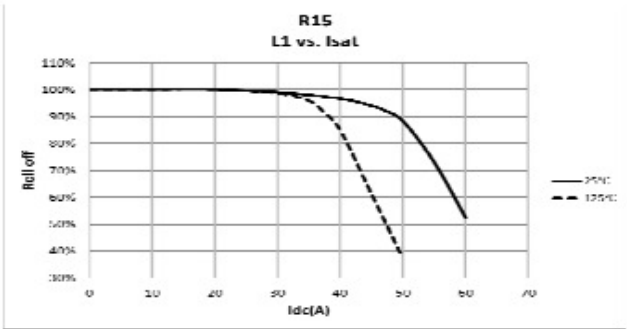
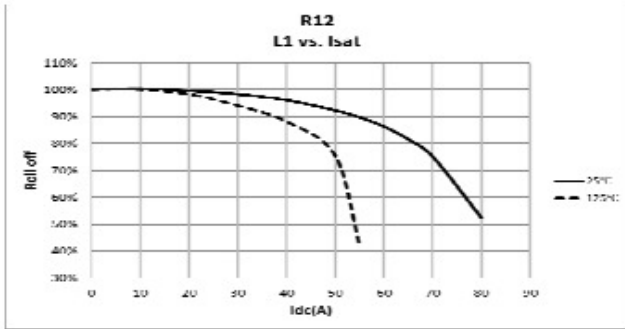
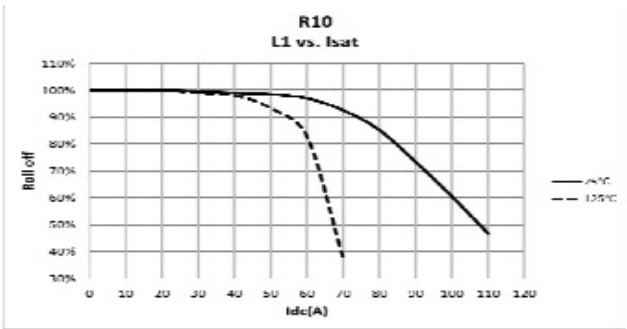
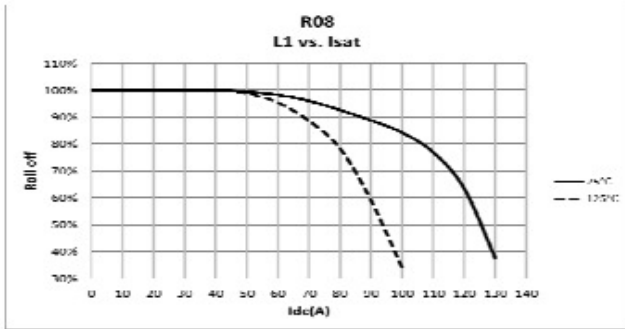
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV107049PR2-R08K	80	+/-10%	100K / 0.1V	0.47 +/- 6.5%	90.0	50.0
GTV107049PR2-R10K	100	+/-10%	100K / 0.1V	0.47 +/- 6.5%	73.0	50.0
GTV107049PR2-R12K	120	+/-10%	100K / 0.1V	0.47 +/- 6.5%	60.0	50.0
GTV107049PR2-R15K	150	+/-10%	100K / 0.1V	0.47 +/- 6.5%	47.0	50.0
GTV107049PR2-R22K	220	+/-10%	100K / 0.1V	0.47 +/- 6.5%	33.0	50.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

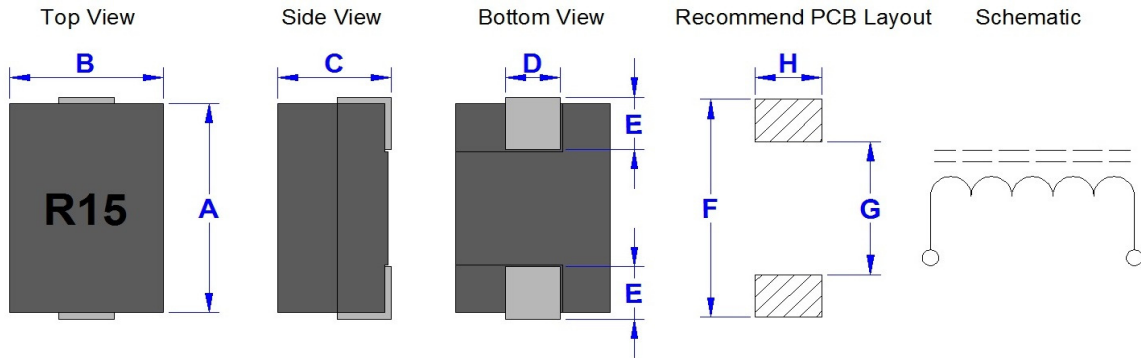


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV107049PR3-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.4	7.00	4.95	2.50	1.52	10.35	6.35	3.10

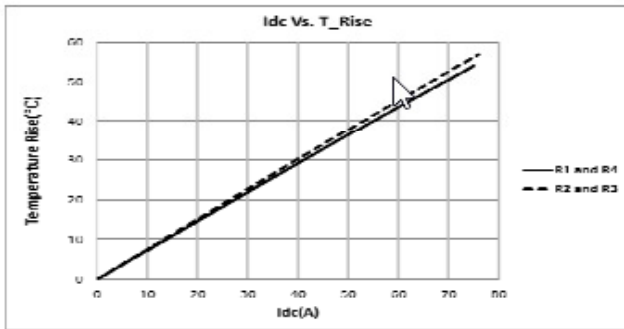
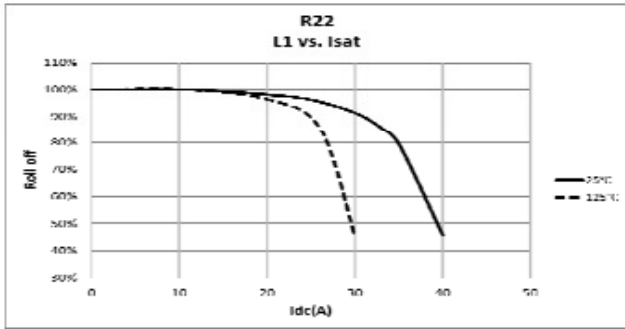
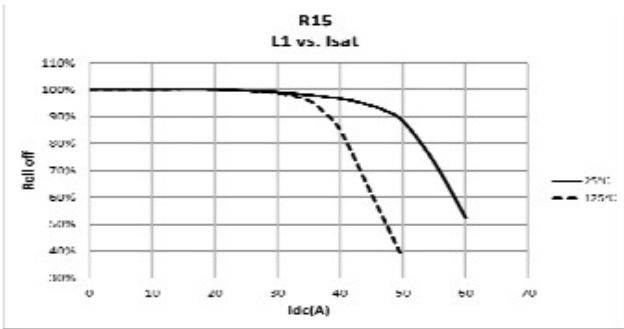
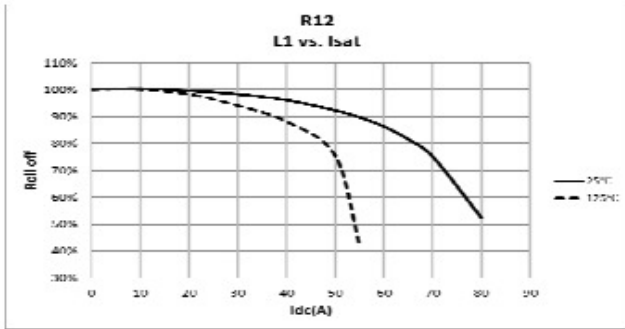
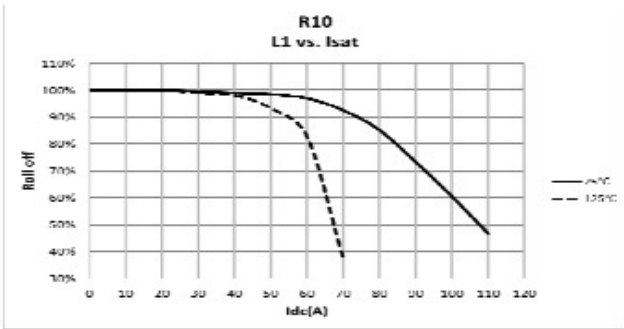
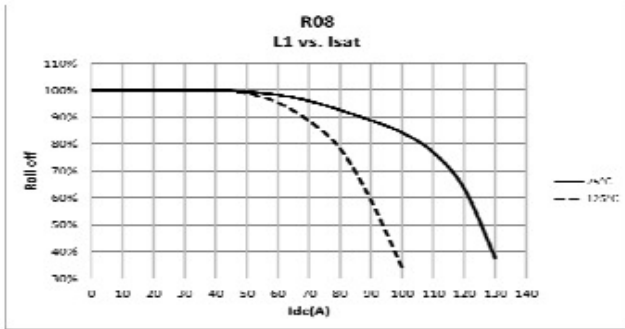
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV107049PR3-R08K	80	+/-10%	100K / 0.1V	0.55 +/- 5.4%	90.0	50.0
GTV107049PR3-R10K	100	+/-10%	100K / 0.1V	0.55 +/- 5.4%	73.0	50.0
GTV107049PR3-R12K	120	+/-10%	100K / 0.1V	0.55 +/- 5.4%	60.0	50.0
GTV107049PR3-R15K	150	+/-10%	100K / 0.1V	0.55 +/- 5.4%	47.0	50.0
GTV107049PR3-R22K	220	+/-10%	100K / 0.1V	0.55 +/- 5.4%	33.0	50.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

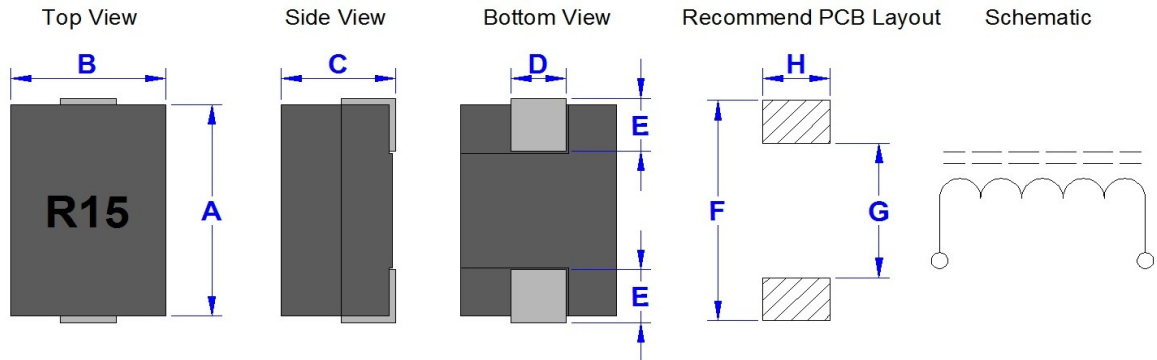


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV107049PR4-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.4	7.00	4.95	2.50	1.52	10.35	6.35	3.10

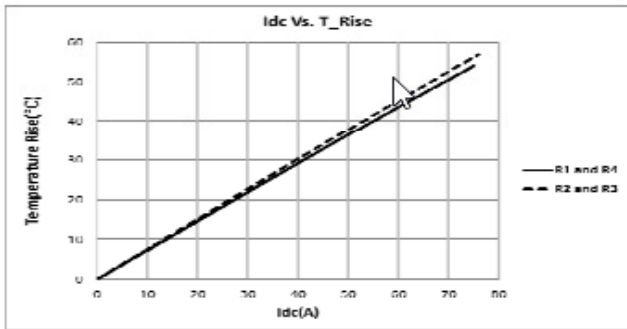
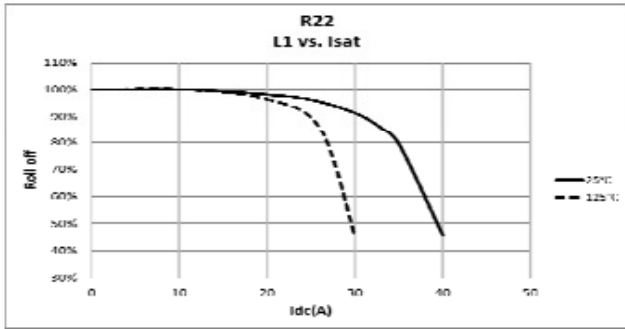
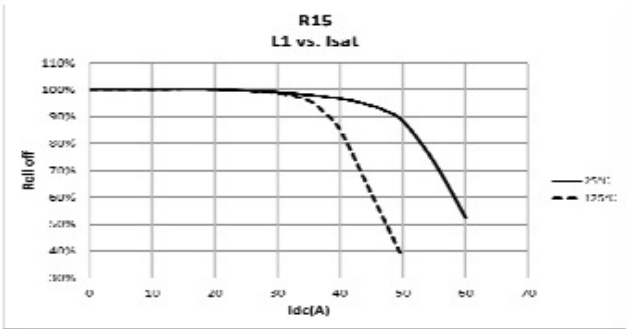
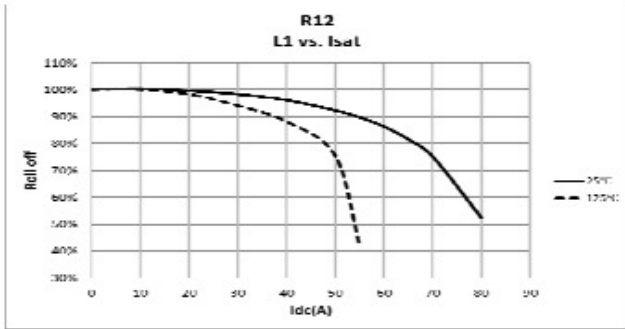
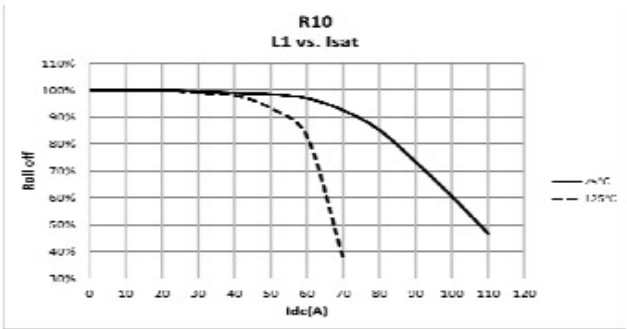
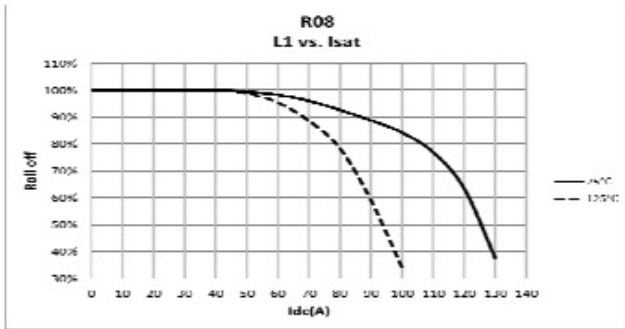
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV107049PR4-R08K	80	+/-10%	100K / 0.1V	0.31 +/- 7%	90.0	50.0
GTV107049PR4-R10K	100	+/-10%	100K / 0.1V	0.31 +/- 7%	73.0	50.0
GTV107049PR4-R12K	120	+/-10%	100K / 0.1V	0.31 +/- 7%	60.0	50.0
GTV107049PR4-R15K	150	+/-10%	100K / 0.1V	0.31 +/- 7%	47.0	50.0
GTV107049PR4-R22K	220	+/-10%	100K / 0.1V	0.31 +/- 7%	33.0	50.0

* All test data is referenced to 25°C ambient.

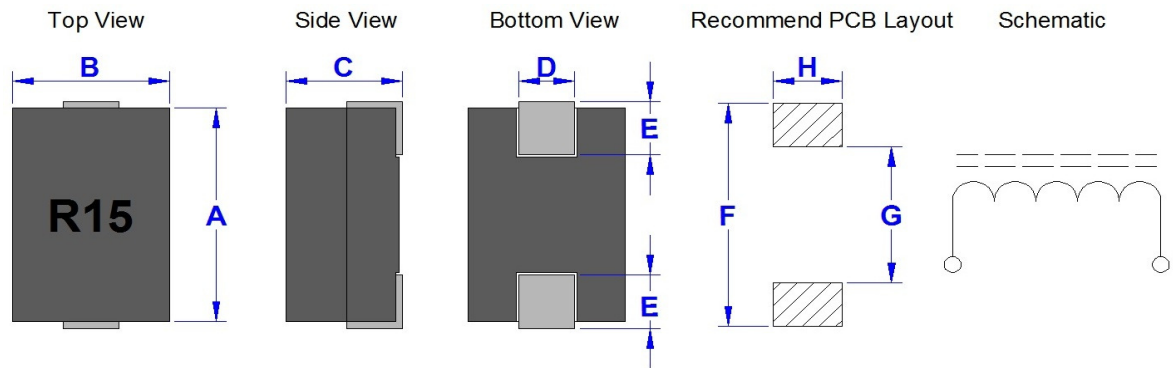
* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).



GTV108070PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.15)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.6	8.00	7.00	2.10	2.20	11.0	5.00	2.60

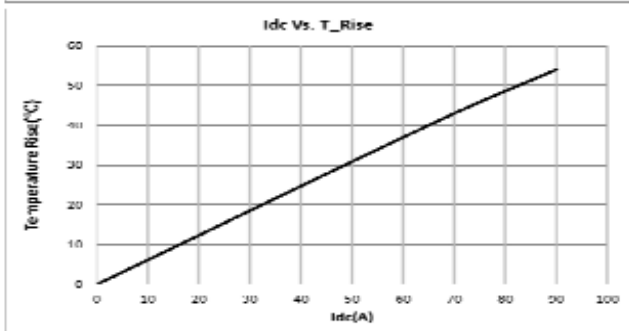
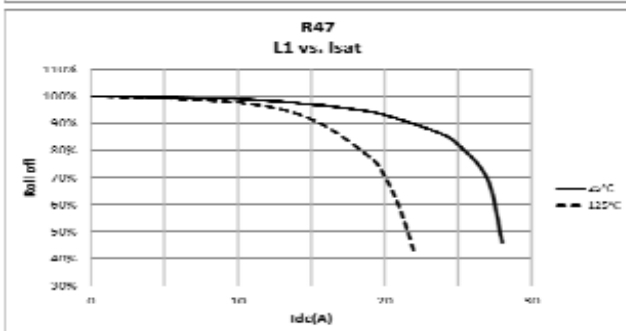
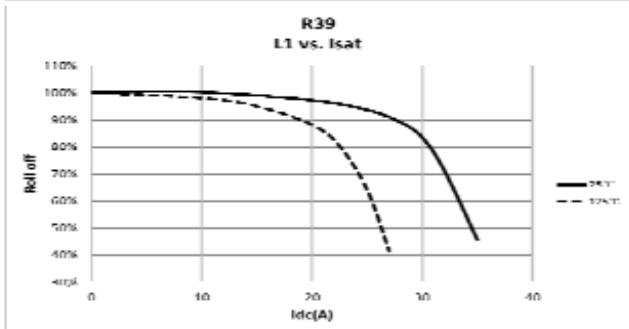
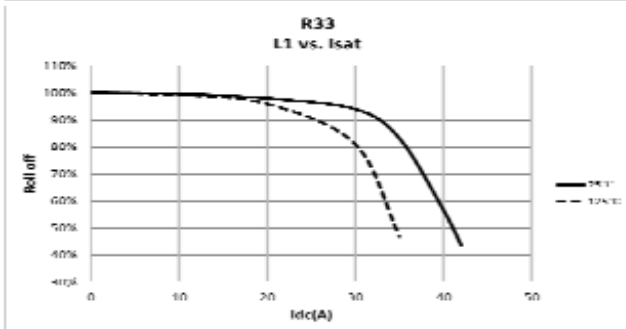
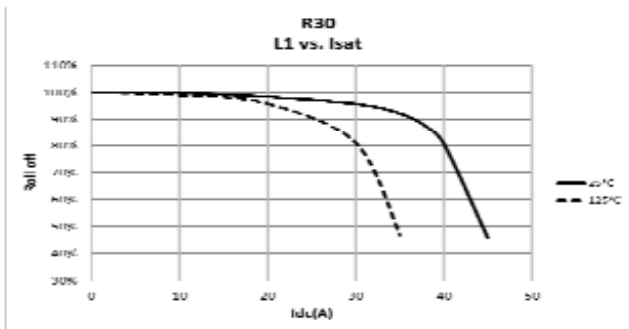
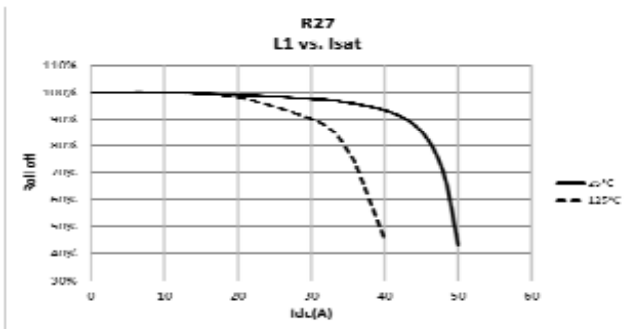
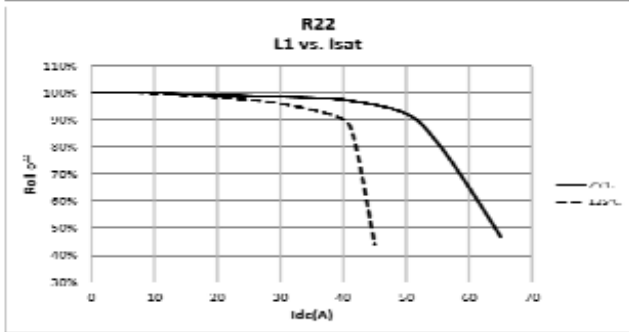
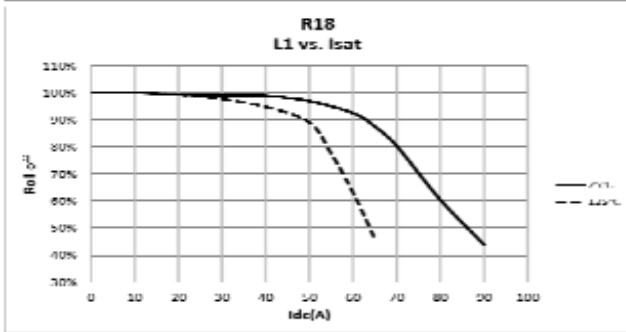
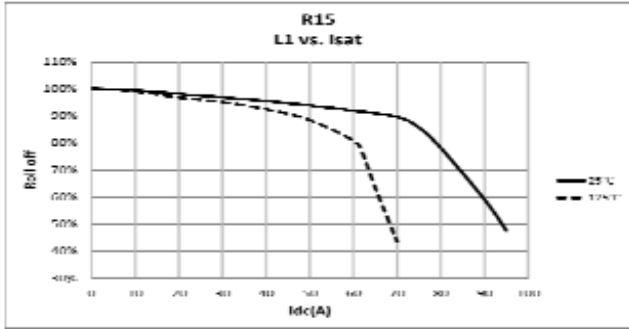
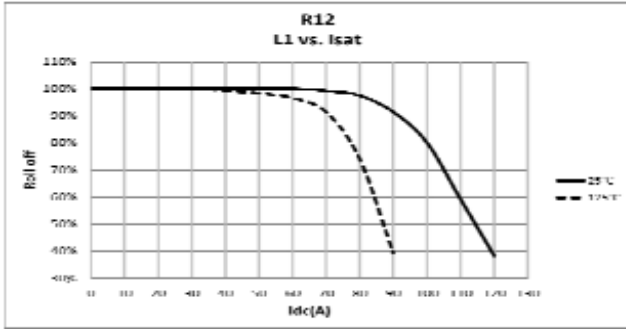
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV108070PR1-R12K	120	+/-10%	100K / 0.1V	0.29 +/- 5.0%	94.0	61.0
GTV108070PR1-R15K	150	+/-10%	100K / 0.1V	0.29 +/- 5.0%	75.0	61.0
GTV108070PR1-R18K	180	+/-10%	100K / 0.1V	0.29 +/- 5.0%	60.0	61.0
GTV108070PR1-R22K	220	+/-10%	100K / 0.1V	0.29 +/- 5.0%	50.0	61.0
GTV108070PR1-R27K	270	+/-10%	100K / 0.1V	0.29 +/- 5.0%	41.0	61.0
GTV108070PR1-R30K	300	+/-10%	100K / 0.1V	0.29 +/- 5.0%	35.0	61.0
GTV108070PR1-R33K	330	+/-10%	100K / 0.1V	0.29 +/- 5.0%	33.0	61.0
GTV108070PR1-R39K	390	+/-10%	100K / 0.1V	0.29 +/- 5.0%	28.0	61.0
GTV108070PR1-R47K	470	+/-10%	100K / 0.1V	0.29 +/- 5.0%	23.5	61.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

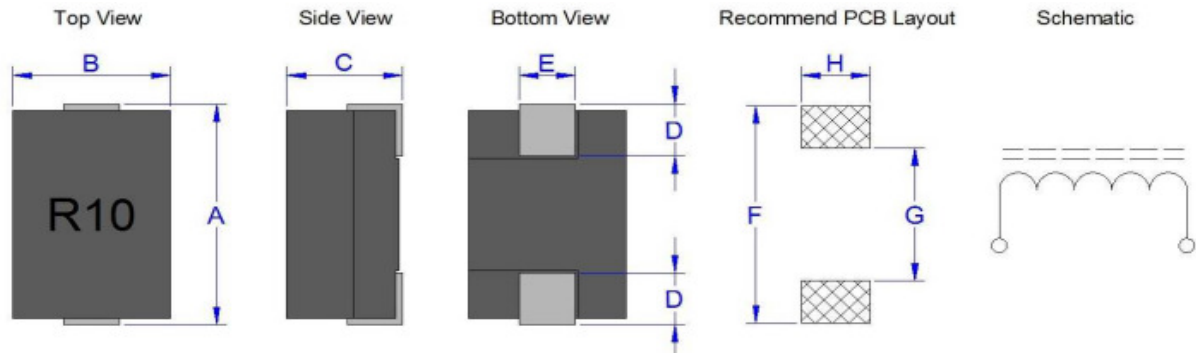


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV108085PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.4	8.20	8.20	2.40	3.40	10.8	4.00	3.80

Electrical Characteristics :

Part No.	Inductance (nH)	Inductance 2 (nH) @Isat	Inductance Tolerance	DCR (m Ohm)		Isat (A) Max.	Irms (A) Max.
				Typ.	Max.		
GTV108085PR1-R10K	100.0	72.0 Min.	K	0.12	0.13	109.0	70.0
GTV108085PR1-R12K	120.0	86.0 Min.	K	0.12	0.13	91.0	70.0
GTV108085PR1-R15K	150.0	108.0 Min.	K	0.12	0.13	72.0	70.0
GTV108085PR1-R30K	300.0	216.0 Min.	K	0.12	0.13	36.0	70.0

* All test data is referenced to 25°C ambient.

* Inductance Test Condition @100KHz , 1.0V

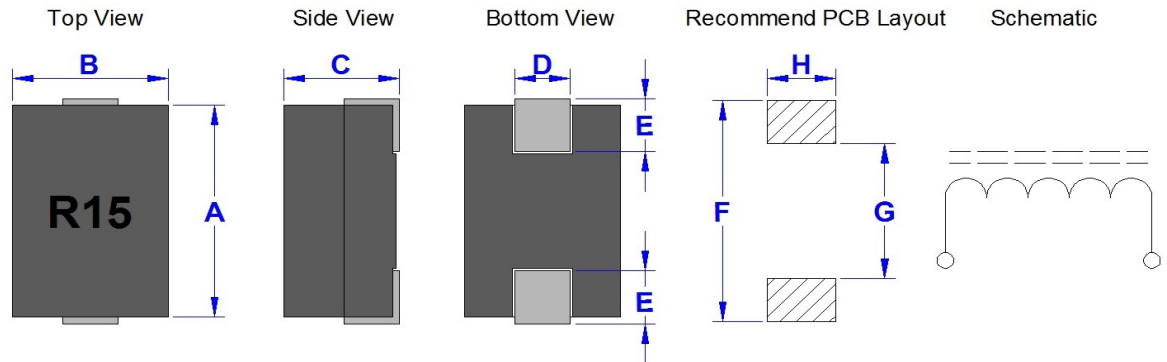
* Inductance Tolerance : K = +/-10%

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

GTV108080PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.1)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
10.40	8.00	8.00	2.10	2.54	11.2	4.06	2.50

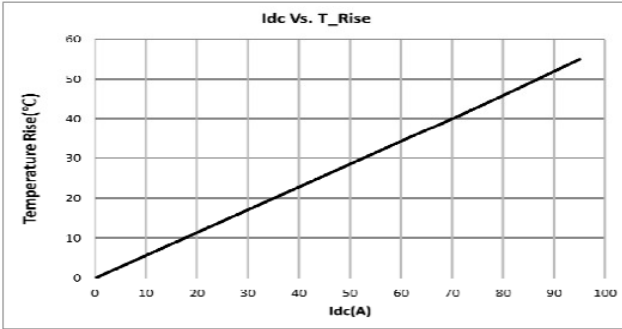
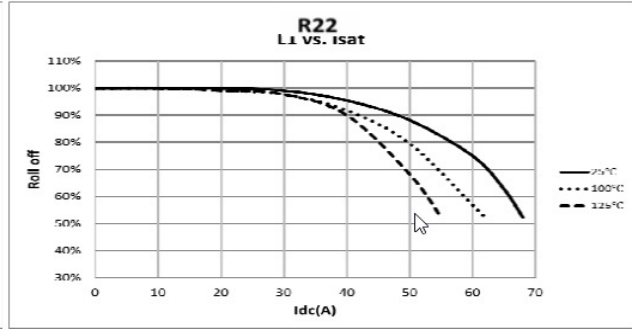
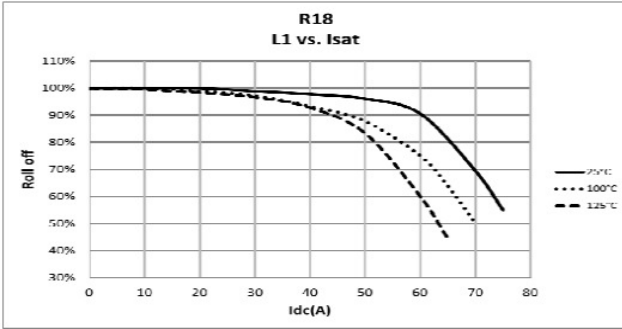
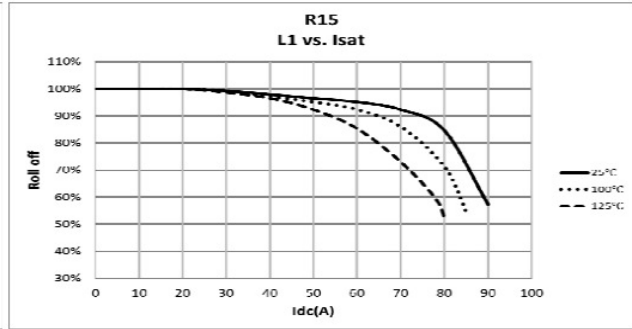
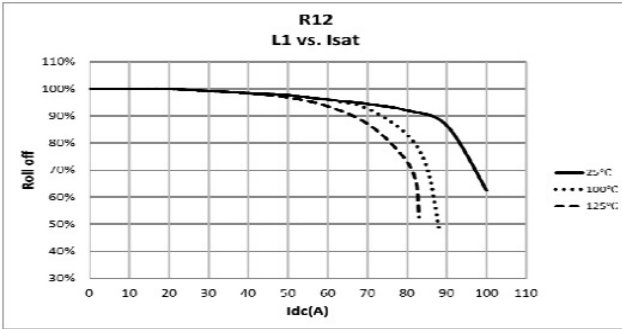
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV108080PR1-R12	120	+/-10%	100K / 0.1V	0.18 +/- 5%	95.0	77.0	68.0
GTV108080PR1-R15	150	+/-10%	100K / 0.1V	0.18 +/- 5%	79.0	66.0	68.0
GTV108080PR1-R18	180	+/-10%	100K / 0.1V	0.18 +/- 5%	62.0	52.0	68.0
GTV108080PR1-R22	220	+/-10%	100K / 0.1V	0.18 +/- 5%	51.0	47.0	68.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

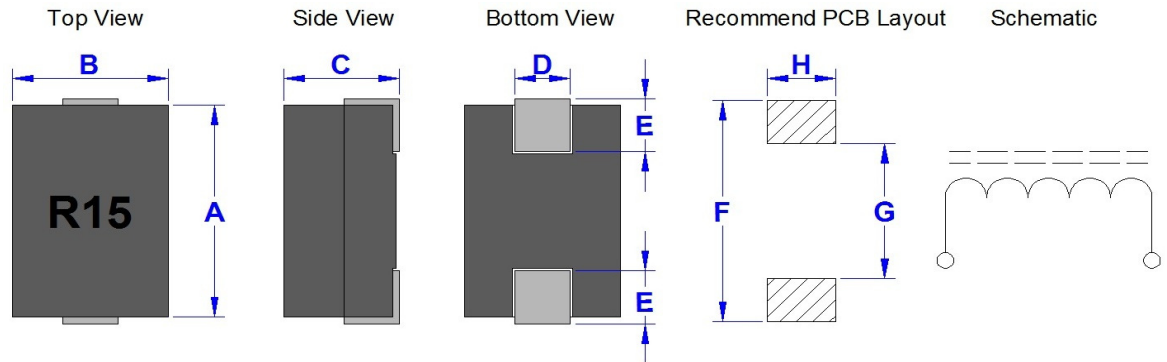


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV117070PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.15)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
11.40	7.20	7.20	1.90	2.50	11.2	5.00	2.10

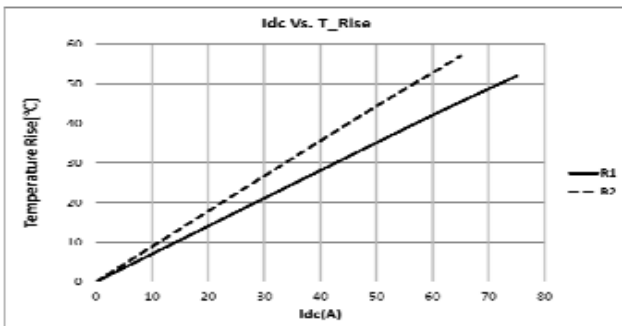
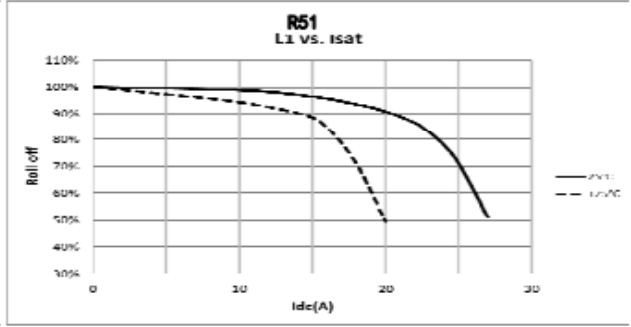
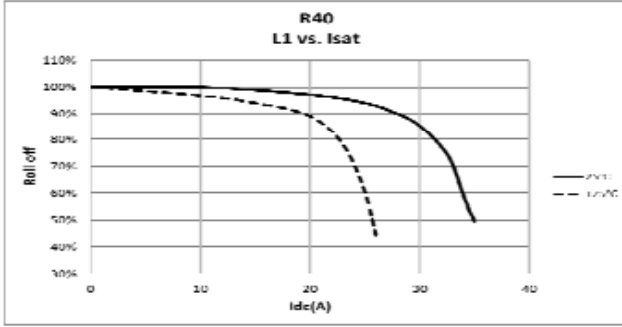
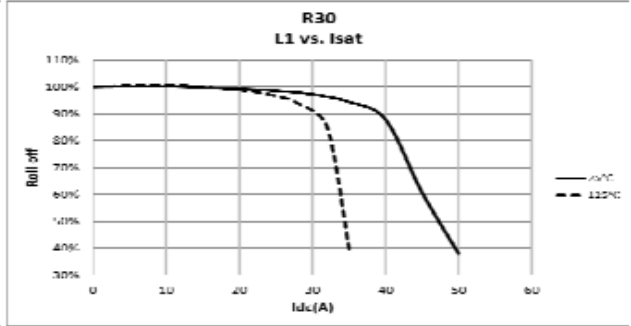
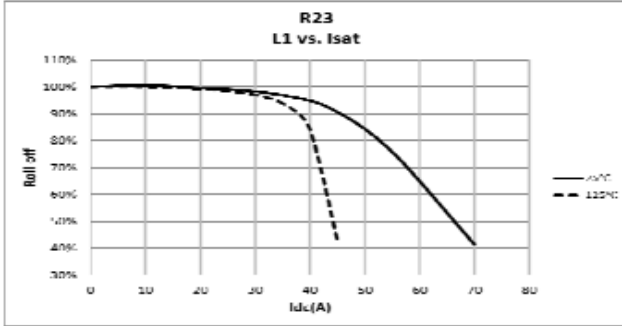
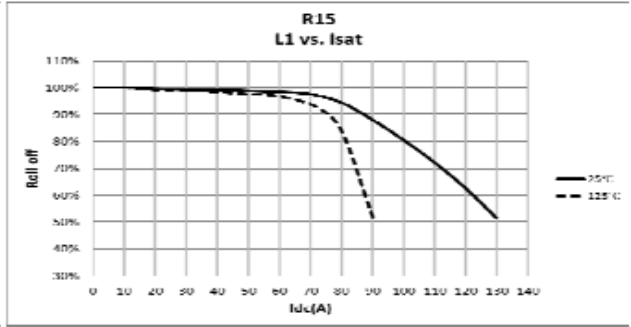
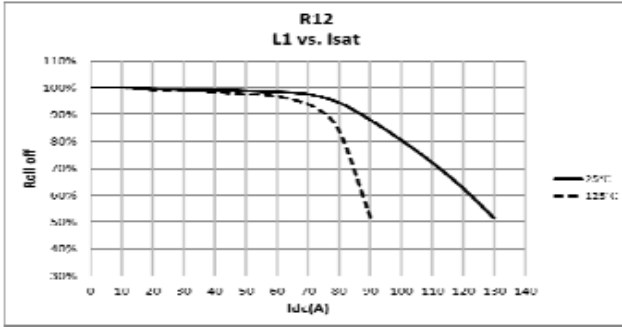
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV117070PR1-R12	120	+/-10%	100K / 0.1V	0.29 +/- 5%	90.0	72.0	55.0
GTV117070PR1-R15	150	+/-10%	100K / 0.1V	0.29 +/- 5%	70.0	56.0	55.0
GTV117070PR1-R23	230	+/-10%	100K / 0.1V	0.29 +/- 5%	45.0	36.0	55.0
GTV117070PR1-R30	300	+/-10%	100K / 0.1V	0.29 +/- 5%	35.0	28.0	55.0
GTV117070PR1-R40	400	+/-10%	100K / 0.1V	0.29 +/- 5%	25.0	20.0	55.0
GTV117070PR1-R51	510	+/-10%	100K / 0.1V	0.29 +/- 5%	18.0	14.5	55.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

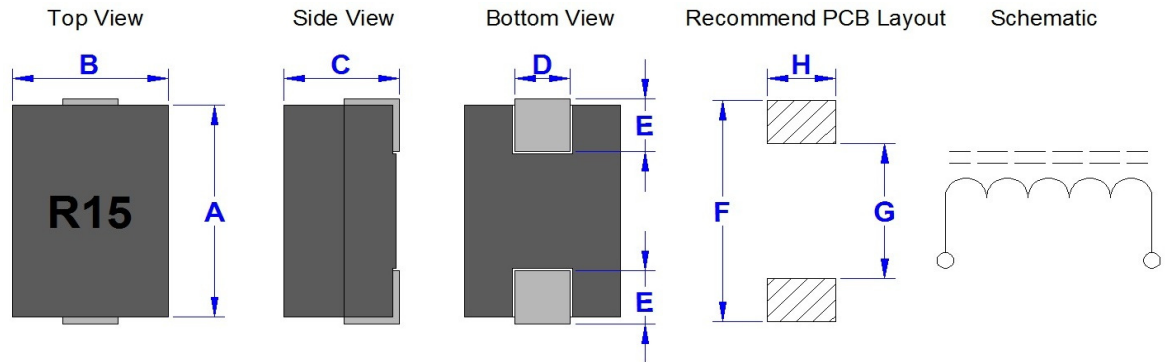


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV117070PR2-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.15)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
11.40	7.20	7.50	1.90	2.50	11.2	5.00	2.10

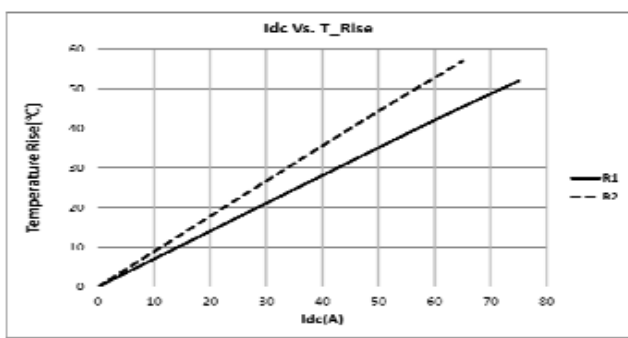
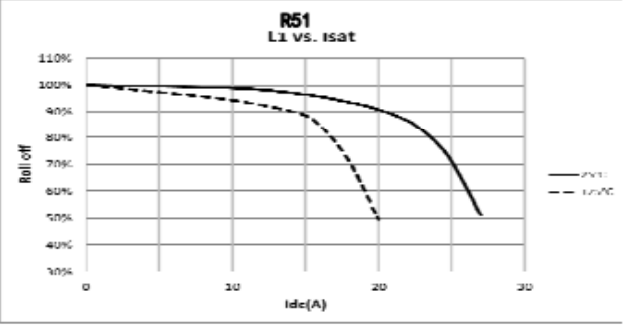
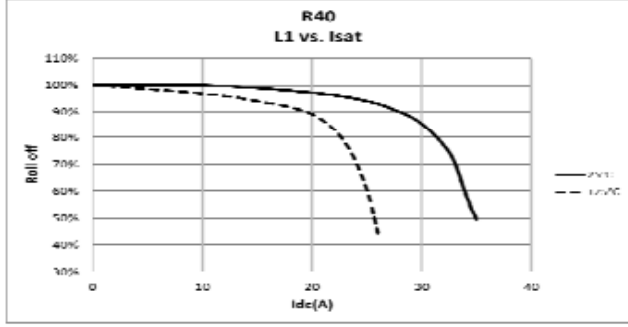
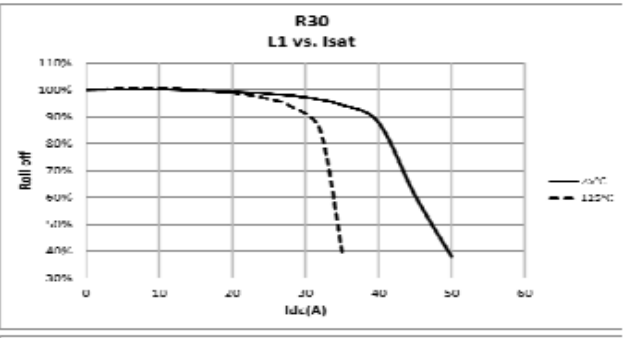
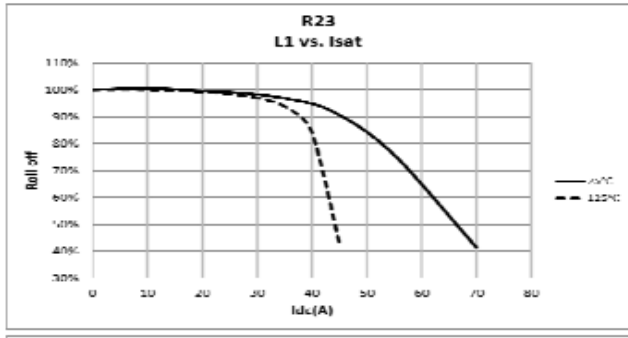
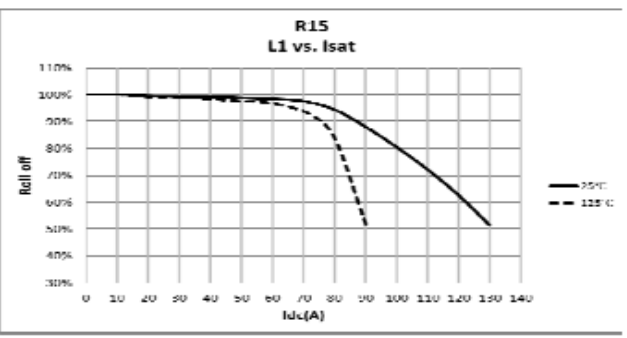
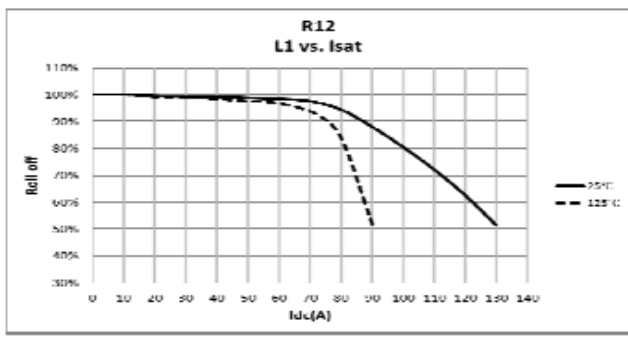
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A)		Irms (A) Max.
					@25°C	@125°C	
GTV117070PR2-R12	120	+/-10%	100K / 0.1V	0.47 +/- 6%	90.0	72.0	42.0
GTV117070PR2-R15	150	+/-10%	100K / 0.1V	0.47 +/- 6%	70.0	56.0	42.0
GTV117070PR2-R23	230	+/-10%	100K / 0.1V	0.47 +/- 6%	45.0	36.0	42.0
GTV117070PR2-R30	300	+/-10%	100K / 0.1V	0.47 +/- 6%	35.0	28.0	42.0
GTV117070PR2-R40	400	+/-10%	100K / 0.1V	0.47 +/- 6%	25.0	20.0	42.0
GTV117070PR2-R51	510	+/-10%	100K / 0.1V	0.47 +/- 6%	18.0	14.5	42.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* Irms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).

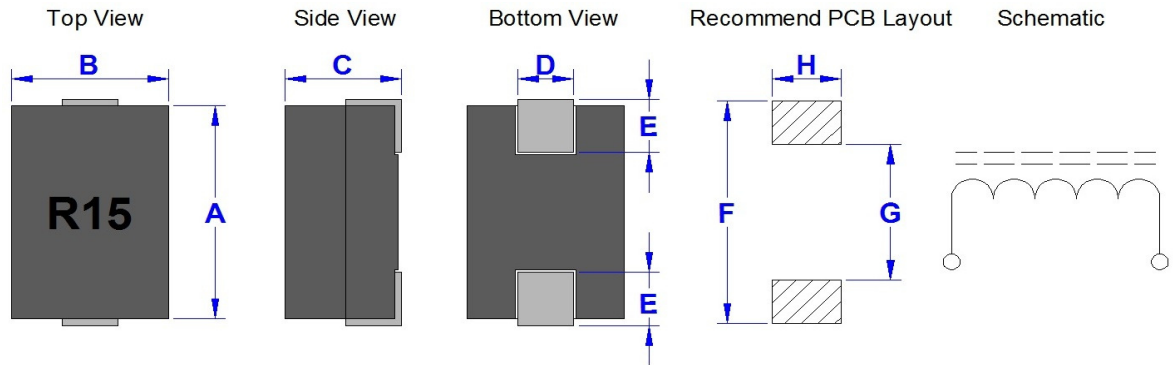


Product Series :	GTV
File Version :	GTV-SERIES-V2R1
Established Date :	2011.09.21
Latest Edit Date :	2023.04.26

Brand :	GOTREND
Editor :	Qiuyi Wu
Description :	SMD Power Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GTV128080PR1-SERIES

Dimension [mm] :



A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)	E (+/-0.2)	F (Ref.)	G (Ref.)	H (Ref.)
12.2	8.10	8.00	2.25	2.10	12.6	5.00	2.64

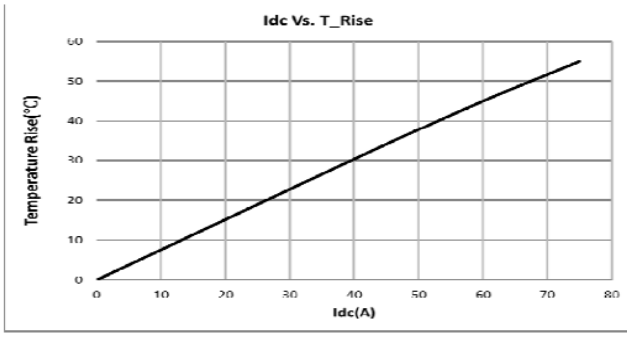
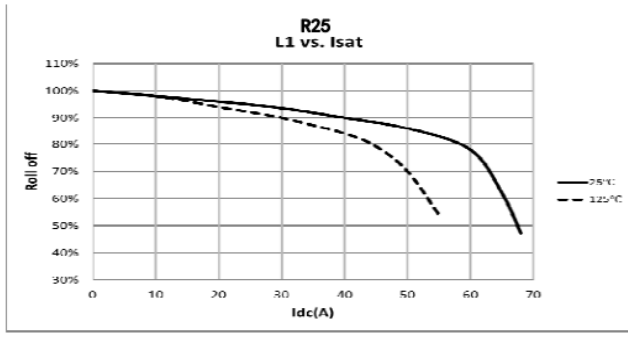
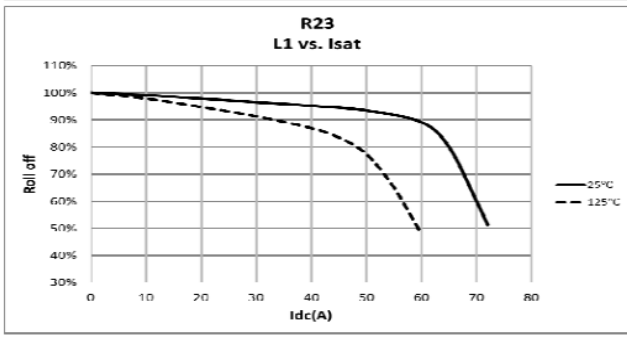
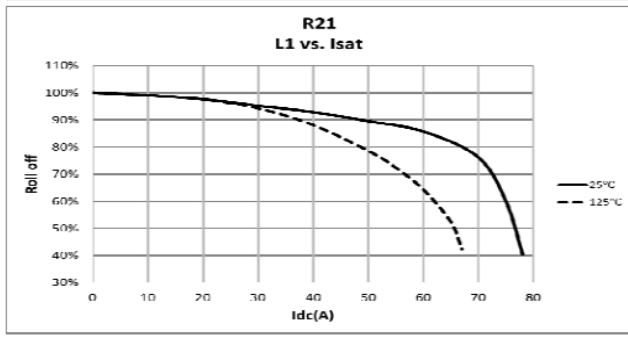
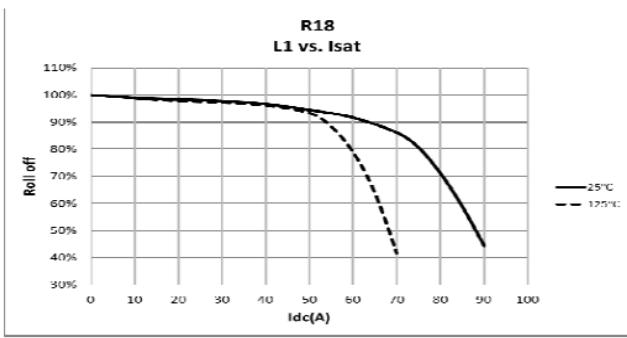
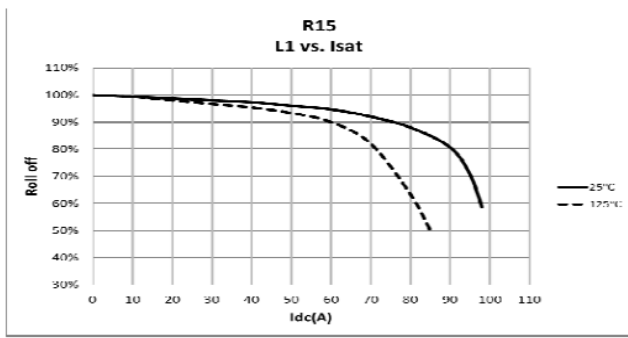
Electrical Characteristics :

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV128080PR1-R15K	150	+/-10%	100K / 0.1V	0.29 +/- 5.0%	85.0	50.0
GTV128080PR1-R18K	180	+/-10%	100K / 0.1V	0.29 +/- 5.0%	72.0	50.0
GTV128080PR1-R21K	210	+/-10%	100K / 0.1V	0.29 +/- 5.0%	65.0	50.0
GTV128080PR1-R23K	230	+/-10%	100K / 0.1V	0.29 +/- 5.0%	61.0	50.0
GTV128080PR1-R25K	250	+/-10%	100K / 0.1V	0.29 +/- 5.0%	55.0	50.0

* All test data is referenced to 25°C ambient.

* Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

* I rms (A) current will cause coil temperature rise approximately up 40°C without core loss (Keep 1.0 min.).



Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

Care note :

Care note for Use :

(1) Storage Condition :

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

(2) Use Temperature :

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

(3) Model :

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

(4) Drop :

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

Never use such stressed product.

Care note for Safety :

(1) Provision to Abnormal Condition :

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

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

(2) Temperature Rise :

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

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

(3) Dielectric Strength :

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

(4) Water :

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

(5) Potting :

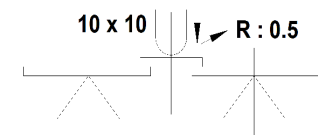
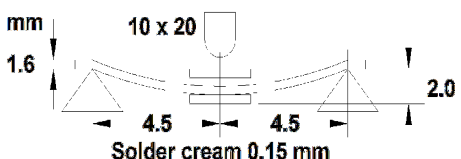
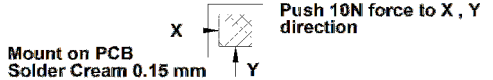
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(6) Detergent :

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

Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

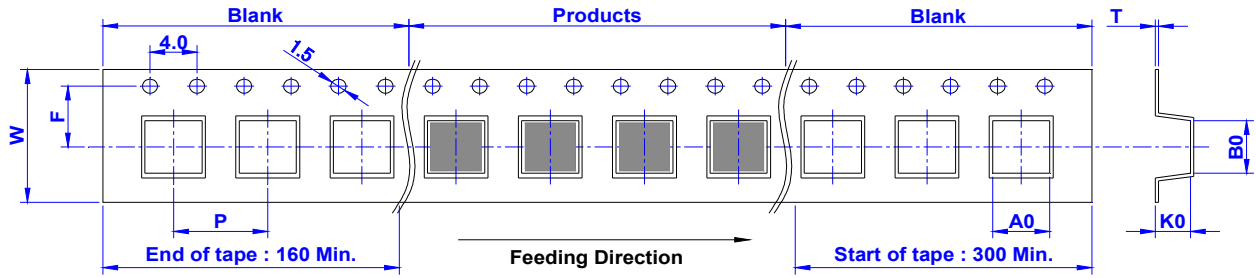
Reliability :

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

Product Series : GTV	Brand : GOTREND
File Version : GTV-SERIES-V2R1	Editor : Qiuyi Wu
Established Date : 2011.09.21	Description : SMD Power Inductor
Latest Edit Date : 2023.04.26	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

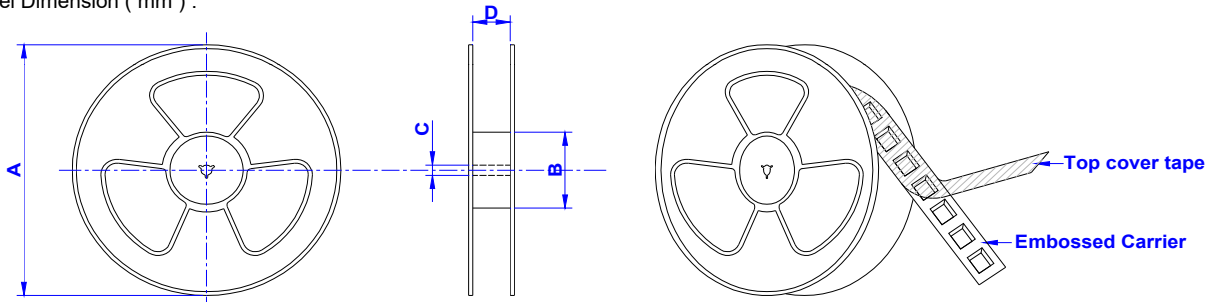
Packaging Information :

Tape Dimension (mm) :



SIZE/mm	W	P	A0	B0	K0	T	F
746632	16.0	12.0	6.6	7.5	3.3	0.35	7.5
707050	16.0	12.0	7.2	7.2	5.1	0.35	7.5
808050	16.0	12.0	7.7	7.9	5.1	0.35	7.5
966610	24.0	12.0	6.6	10.0	10.3	0.4	11.5
986480	24.0	12.0	6.7	10.3	8.2	0.4	11.5
107049	24.0	12.0	7.4	10.5	5.1	0.4	11.5
108070	24.0	16.0	8.2	10.7	7.6	0.4	11.5
108085	24.0	16.0	8.4	10.5	8.3	0.4	11.5
108080	24.0	16.0	8.2	10.8	8.25	0.4	11.5
117070	24.0	16.0	7.5	11.6	7.6	0.4	11.5
128080	24.0	12.0	8.4	12.5	8.3	0.4	11.5

Reel Dimension (mm) :



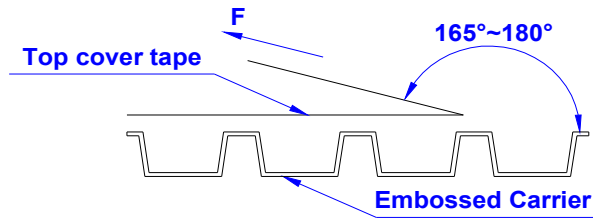
SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
746632	13" x 16 mm	330	100	20.4	16.5	1500 PCS
707050	13" x 16 mm	330	100	20.4	16.5	1000 PCS
808050	13" x 16 mm	330	100	20.4	16.5	1000 PCS
966610	13" x 24 mm	330	100	20.4	24.5	500 PCS
986480	13" x 24 mm	330	100	20.4	24.5	700 PCS
107049	13" x 24 mm	330	100	20.4	24.5	1000 PCS
108070	13" x 24 mm	330	100	20.4	24.5	500 PCS
108085	13" x 24 mm	330	100	20.4	24.5	500 PCS
108080	13" x 24 mm	330	100	20.4	24.5	500 PCS
117070	13" x 24 mm	330	100	20.4	24.5	500 PCS
128080	13" x 24 mm	330	100	20.4	24.5	700 PCS

Product Series : GTV
 File Version : GTV-SERIES-V2R1
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Brand : GOTREND
 Editor : Qiuyi Wu
 Description : SMD Power Inductor
 Product Type : Standard Customize

Packaging Information :

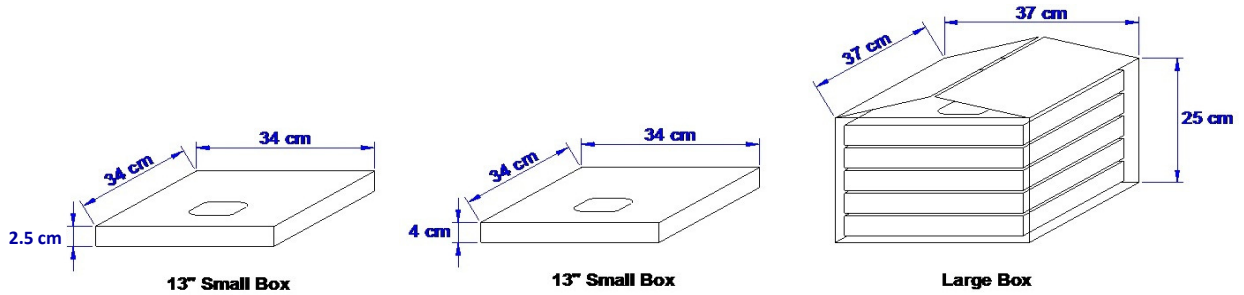
Tearing Off Force :



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

Box Package :



SIZE/mm	Reels in Small Box	Small Box in Large Box
746632	1	7
707050	1	7
808050	1	7
966610	1	5
986480	1	5
107049	1	5
108070	1	5
108085	1	5
108080	1	5
117070	1	5
128080	1	5