

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize



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

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

- ◆ Our manufacturing sites fully compliance with requirement regarding the quality management system in the automotive industry under the IATF 16949 standard. GOTREND Technology respect individual agreements with reference to customer requirements and customer specific requirements (CSR). We will like to emphasize that only requirements mutually agreed upon will in implemented in our Quality Management System taking into consideration that IATF 16949 may appear to support the acceptance of unilateral requirements. We will only legally bind to this individually agreed upon agreement under the IATF 16949 standard.

- ◆ The product itself is a powder metallurgy product, so the structure is relatively fragile, and it should not be used for products that are easy to fall. In addition, when this product is assembled, it should avoid collision with the tool or mechanism shell.



- ◆ It is not recommended to use hot air gun for disassembling of this product. When using of hot air gun to repair other parts, please also take note that long time or high temperature exposure of this product will also damage the inductance device. If you need to use the hot air gun to disassemble the product, it is recommended to adjust the hot air gun temperature to 380 deg.C±5 deg.C. The blower head of the hot air gun should be perpendicular and at least 1cm away from the product. After heating the product to the tin material melting point, use tweezers to remove the product from the PCB.



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Features & Application :

- * Carbonyl Powder.
- * Compact design.
- * High current , low DCR , high efficiency.
- * Very low acoustic noise and very low leakage flux noise.
- * High reliability.
- * 100% Lead (Pb) - Free and RoHS compliant.
- * Note PC power system , incl. IMVP-6 , DC / DC converter.



(Picture for reference only)

Part No. Example :

PN	:	GSTM	3012	P	-	1R0	M
-----		-----	-----	---		-----	---
ID	:	1	2	3		4	5
1	:	GOTREND Series : GSTM					
2	:	Type Size Code : 3012 = 3.5 x 3.2 x 1.2 mm					
3	:	P = Pb free < 1000 ppm					
4	:	Inductance : 1R0 = 1.0 uH					
5	:	Tolerance : M = +/-20% ; N = +/-30%					

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)

Attention & Caution :

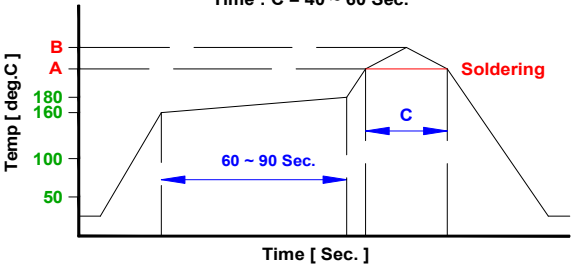
- * Keep out of Splashing water or salt water
- * Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
-  Vibrations or shocks which exceed the specified condition
- Dew condense
- Layout near the edge of PCB
- Over flexure after SMT mounting & PCBA
- * Pin foot or SMD pad solderability: 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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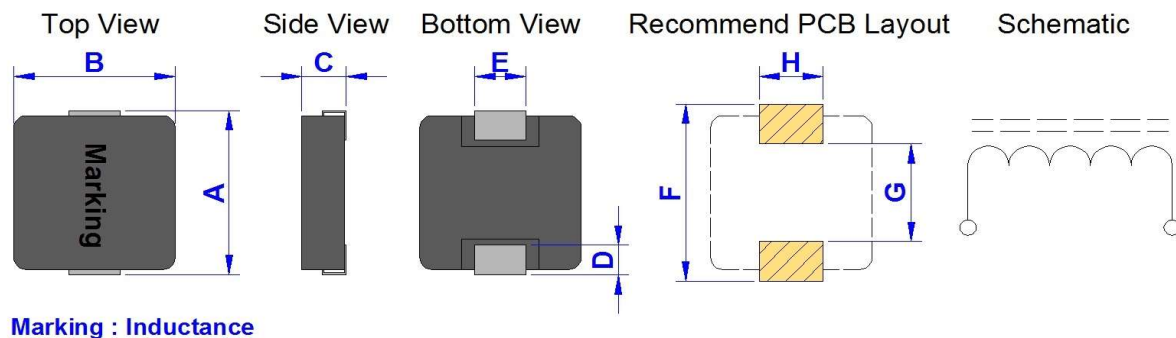
High Current Inductor - GSTM Series Type

Image	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
	GSTM3012P	3.5	3.2	1.0	0.15	10.0	9.6-550.0	1.4-14.0	1.0-10.0	5 ~ 6
	GSTM3020P	3.5	3.2	1.8	0.1	10.0	6.6-422.0	1.6-14.0	1.4-10.5	7 ~ 8
	GSTM4012P	4.45	4.06	1.0	0.1	22.0	4.3-1050	1.0-25.0	0.8-11.5	9 ~ 10
	GSTM4020P	4.45	4.06	1.8	0.1	22.0	3.2-500.0	1.4-35.0	1.2-12.0	11~ 13
	GSTM5012P	5.7	5.2	1.0	0.1	10.0	4.3-385.0	1.8-14.5	1.5-14.0	14 ~ 15
	GSTM5015P	5.7	5.2	1.3	0.33	10.0	8.5-235.0	2.3-16.0	2.0-9.0	16 ~ 17
	GSTM5018P	5.7	5.2	1.6	0.33	10.0	7.5-190.0	2.8-15.0	2.3-11.0	18 ~ 19
	GSTM5020P	5.7	5.2	1.8	0.33	10.0	6.3-199.0	3.4-21.3	2.3-12.0	20 ~ 21
	GSTM5030P	5.7	5.2	2.8	0.33	22.0	4.3-250.0	1.7-18.0	1.9-14.0	22 ~ 23
	GSTM6012P	7.0	6.6	1.0	0.22	10.0	6.5-290.0	2.5-19.0	1.8-11.0	24 ~ 25
	GSTM6015P	7.0	6.6	1.3	0.22	10.0	4.3-216.0	2.8-22.0	2.3-14.0	26 ~ 27
	GSTM6018P	7.0	6.6	1.6	0.33	10.0	4.8-160.0	3.5-22.0	2.3-14.0	28 ~ 29
	GSTM6020P	7.0	6.6	1.8	0.1	22.0	2.0-280.0	2.5-40.0	1.5-21.0	30 ~ 31
	GSTM6024P	7.0	6.6	2.2	0.1	22.0	1.4-215.0	3.0-70.0	1.8-30.0	32 ~ 34
	GSTM6030P	7.3	6.6	2.8	0.1	47.0	1.2-363.0	2.0-60.0	1.75-32.5	35 ~ 37
	GSTM6050P	7.3	6.6	4.8	0.33	68.0	2.5-445.0	2.0-32.0	1.2-25.0	38 ~ 40
	GSTM8038P	8.8	8.4	3.8	0.15	33.0	1.15-110.0	5.0-70.0	3.5-32.0	41 ~ 42
	GSTM1040P	11.0	10.0	3.8	0.22	82.0	0.8-320.0	2.5-60.0	1.5-35.0	43 ~ 45
	GSTM1050PS	11.0	10.0	4.8	0.36	100.0	0.82-290.0	2.8-52.0	2.2-34.0	46 ~ 47
	GSTM1238P	13.5	12.5	3.6	1.0	10.0	3.3-34.0	14.0-40.0	7.0-24.0	48 ~ 49
	GSTM1250P	13.5	12.5	4.8	0.33	10.0	0.7-25.5	16.0-80.0	9.0-42.0	50 ~ 51
	GSTM1260P	13.5	12.5	5.7	6.8	220.0	12.0-550.0	4.0-25.0	2.0-15.0	52 ~ 53
	GSTM1265P	13.5	12.5	6.2	0.4	330.0	0.7-780.0	3.0-64.0	1.8-44.0	54 ~ 56

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GSTM3012P-SERIES

Dimension [mm] :



A (+/-0.2)	B (+/-0.2)	C (+/-0.2)	D (+/-0.2)	E (+/-0.2)	F(Ref.)	G(Ref.)	H(Ref.)
3.50	3.20	1.00	0.70	1.20	4.10	1.90	1.45

Electrical Characteristics :

Part No.	Inductance (μ H)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM3012P-R15□	0.15	N	9.6	11.0	14.0	10.0
GSTM3012P-R22□	0.22	M	14.0	17.0	10.0	6.5
GSTM3012P-R33□	0.33	M	16.0	20.0	9.2	6.2
GSTM3012P-R36□	0.36	M	18.5	23.0	8.5	6.0
GSTM3012P-R47□	0.47	M	25.0	30.0	7.2	5.0
GSTM3012P-R56□	0.56	M	31.0	36.0	6.6	4.5
GSTM3012P-R68□	0.68	M	34.0	40.0	6.1	4.0
GSTM3012P-R82□	0.82	M	41.0	48.0	5.8	3.5
GSTM3012P-1R0□	1.00	M	50.0	60.0	5.5	3.3
GSTM3012P-1R5□	1.50	M	71.0	85.0	4.0	3.0
GSTM3012P-2R2□	2.20	M	98.0	115.0	3.4	2.7
GSTM3012P-3R3□	3.30	M	191.0	210.0	3.1	2.0
GSTM3012P-4R7□	4.70	M	266.0	293.0	2.8	1.6
GSTM3012P-5R6□	5.60	M	310.0	360.0	2.2	1.5
GSTM3012P-6R8□	6.80	M	360.0	400.0	2.0	1.4
GSTM3012P-8R2□	8.20	M	420.0	463.0	1.7	1.2
GSTM3012P-100□	10.00	M	498.0	550.0	1.4	1.0

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

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

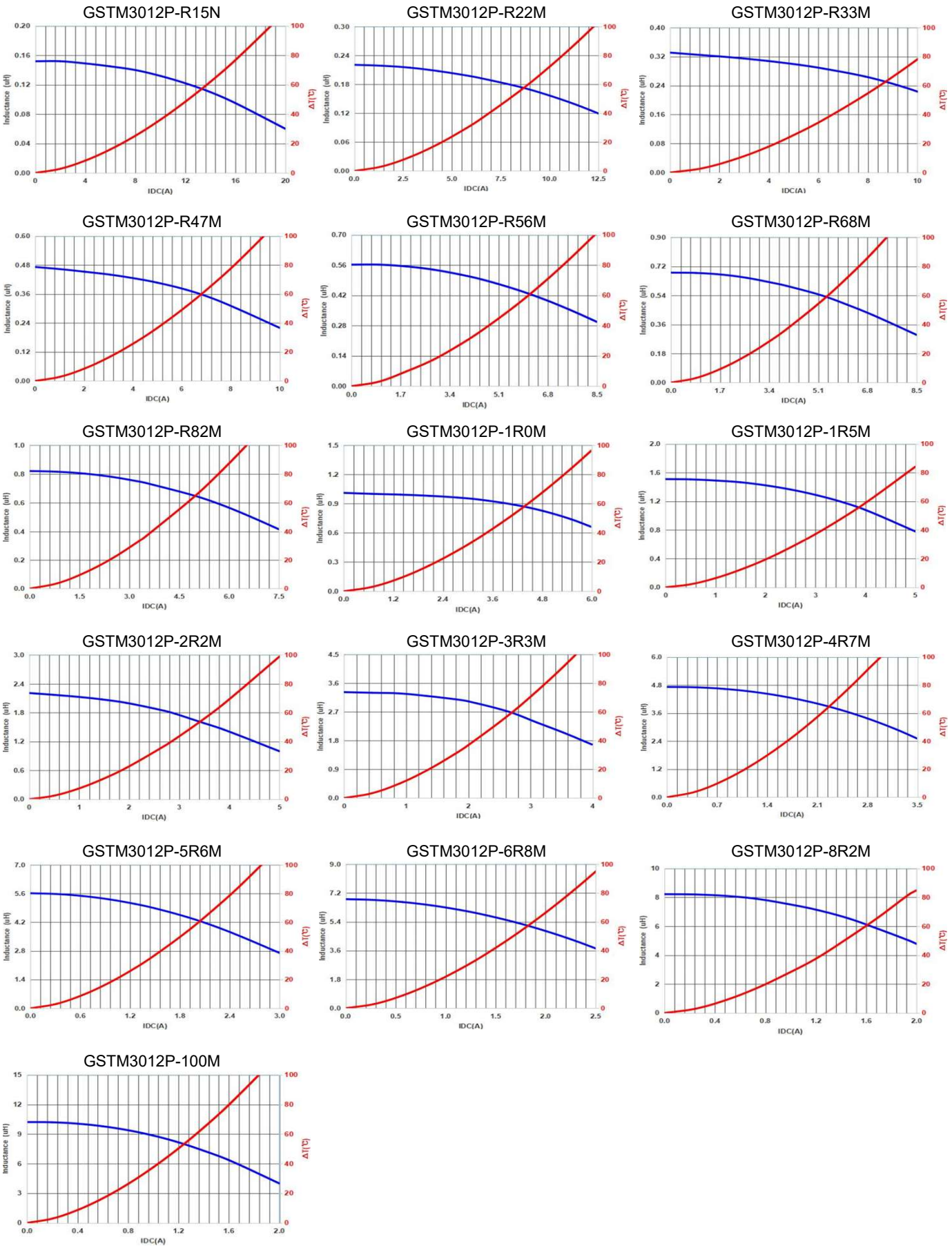
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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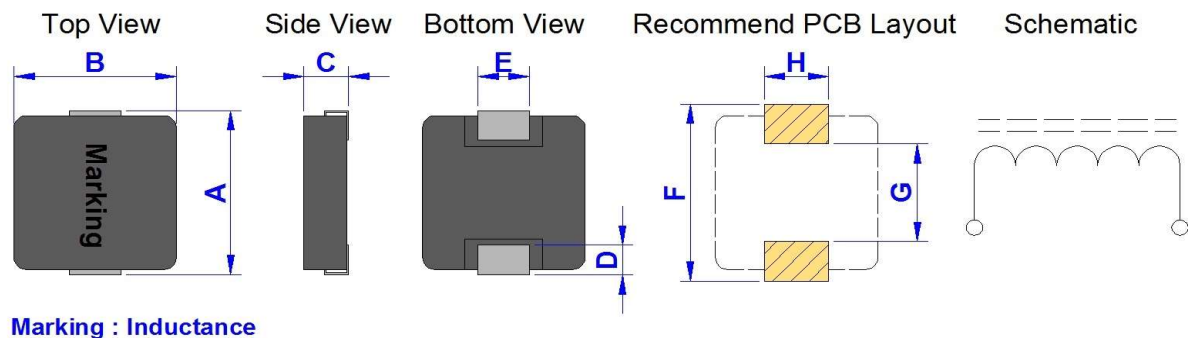
Typical Performance Curves:



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GSTM3020P-SERIES

Dimension [mm] :



A (+/-0.2)	B (+/-0.2)	C (+/-0.2)	D (+/-0.2)	E (+/-0.2)	F(Ref.)	G(Ref.)	H(Ref.)
3.50	3.20	1.80	0.70	1.20	4.10	1.90	1.45

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM3020P-R10□	0.10	N	6.6	9.0	14.0	10.5
GSTM3020P-R22□	0.22	N	11.0	14.0	11.2	9.0
GSTM3020P-R33□	0.33	M	17.0	21.0	10.0	8.0
GSTM3020P-R47□	0.47	M	19.7	23.0	9.0	7.0
GSTM3020P-R60□	0.60	M	24.0	28.0	7.5	6.0
GSTM3020P-R68□	0.68	M	25.5	29.0	7.0	5.5
GSTM3020P-R82□	0.82	M	27.0	32.0	6.0	4.8
GSTM3020P-1R0□	1.00	M	32.0	38.0	5.0	4.0
GSTM3020P-1R2□	1.20	M	39.0	47.0	4.5	3.9
GSTM3020P-1R5□	1.50	M	42.0	50.0	4.0	3.8
GSTM3020P-2R2□	2.20	M	65.0	75.0	3.7	3.5
GSTM3020P-3R3□	3.30	M	125.0	145.0	3.5	3.0
GSTM3020P-4R7□	4.70	M	172.0	200.0	3.0	2.6
GSTM3020P-5R6□	5.60	M	205.0	238.0	2.6	2.2
GSTM3020P-6R8□	6.80	M	260.0	300.0	2.2	1.9
GSTM3020P-8R2□	8.20	M	340.0	390.0	1.9	1.6
GSTM3020P-100□	10.00	M	366.0	422.0	1.6	1.4

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

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

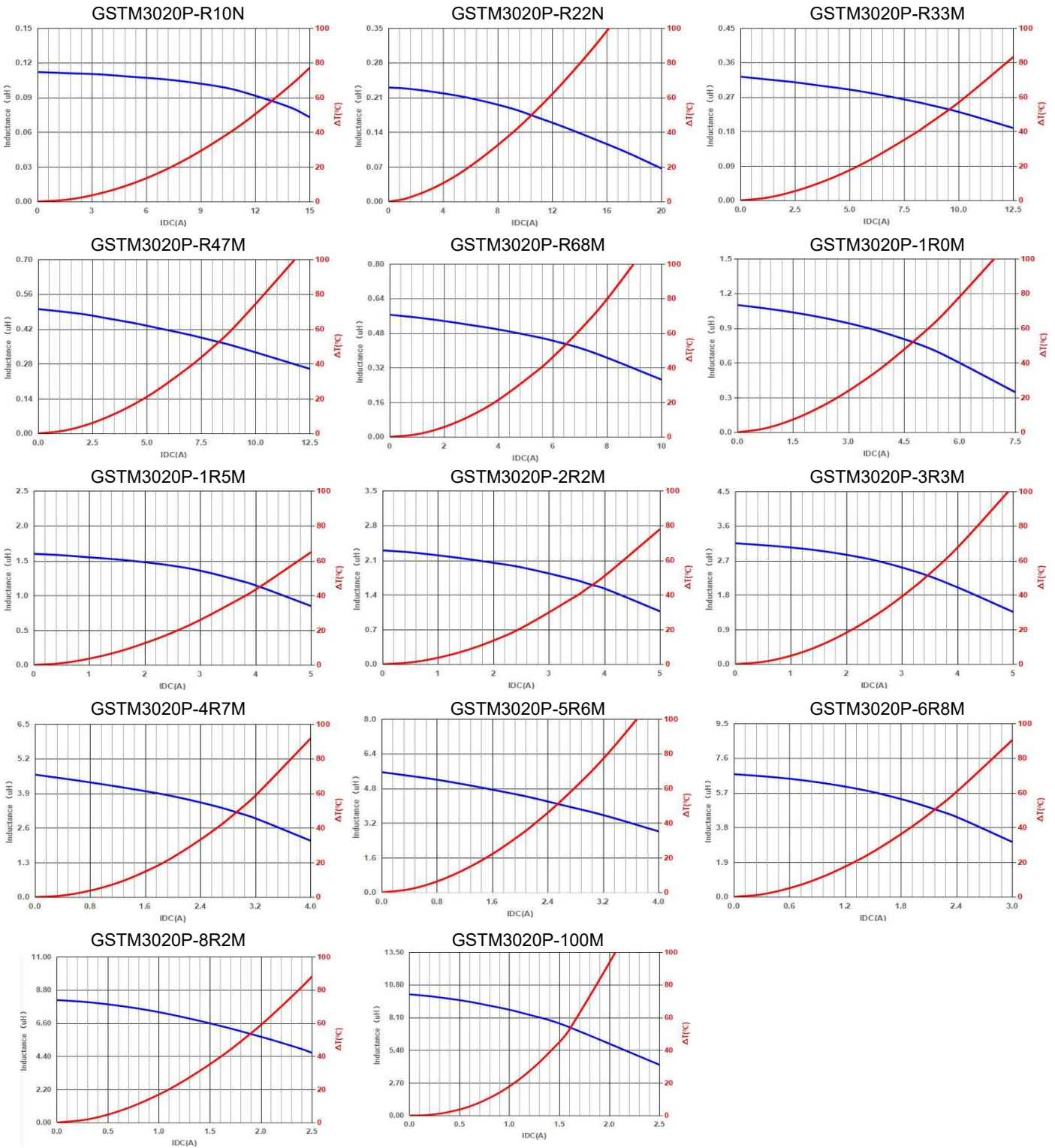
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* Isat : Saturated Current measured at the point of L drop approximately 30%

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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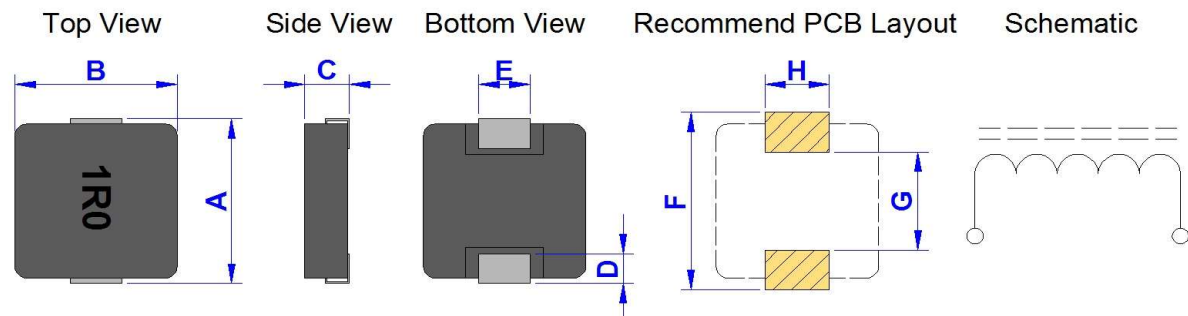
Typical Performance Curves:



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GSTM4012P-SERIES

Dimension [mm] :



Marking : Inductance code

A (+/-0.25)	B (+/-0.25)	C (+/-0.2)	D (+/-0.3)	E (+/-0.2)	F(Ref.)	G(Ref.)	H(Ref.)
4.45	4.06	1.00	0.76	2.00	5.20	2.20	2.40

Electrical Characteristics :

Part No.	Inductance (μ H)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM4012P-R10□	0.10	N	4.3	5.5	25.0	11.5
GSTM4012P-R22□	0.22	M	6.6	8.0	20.0	8.5
GSTM4012P-R47□	0.47	M	18.0	20.0	6.5	6.0
GSTM4012P-R68□	0.68	M	32.0	37.0	6.0	5.0
GSTM4012P-1R0□	1.00	M	41.0	47.0	6.0	4.0
GSTM4012P-1R2□	1.20	M	48.0	56.0	5.0	3.5
GSTM4012P-1R5□	1.50	M	55.0	63.3	4.0	3.0
GSTM4012P-2R2□	2.20	M	69.2	80.0	3.5	2.8
GSTM4012P-3R3□	3.30	M	84.0	97.0	3.0	2.3
GSTM4012P-4R7□	4.70	M	128.0	145.0	2.5	2.0
GSTM4012P-5R6□	5.60	M	180.0	208.0	2.3	1.7
GSTM4012P-6R8□	6.80	M	300.0	360.0	1.7	1.5
GSTM4012P-8R2□	8.20	M	313.0	376.0	1.6	1.4
GSTM4012P-100□	10.00	M	410.0	463.0	1.4	1.3
GSTM4012P-220□	22.00	M	950.0	1050.0	1.0	0.8

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

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

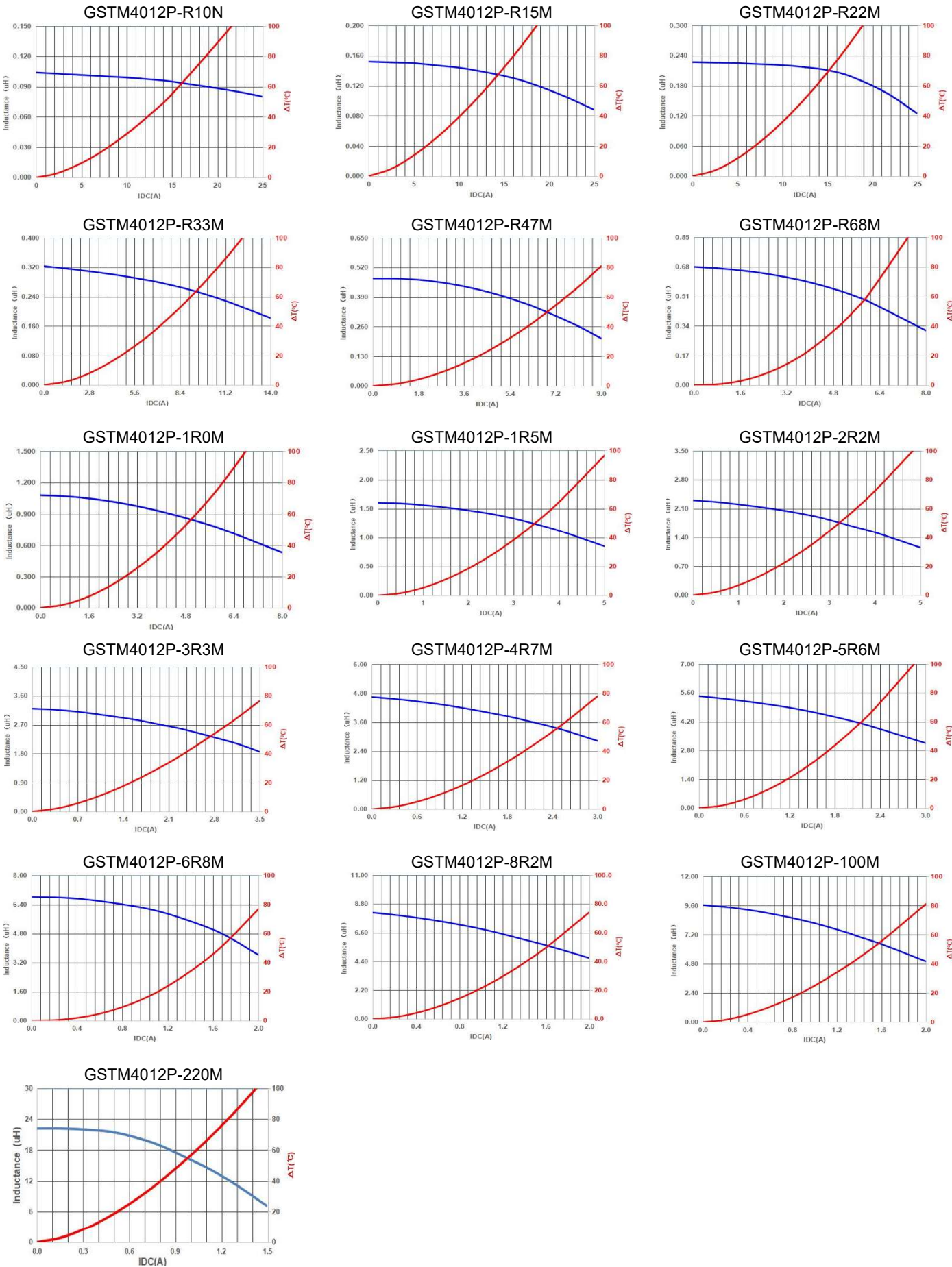
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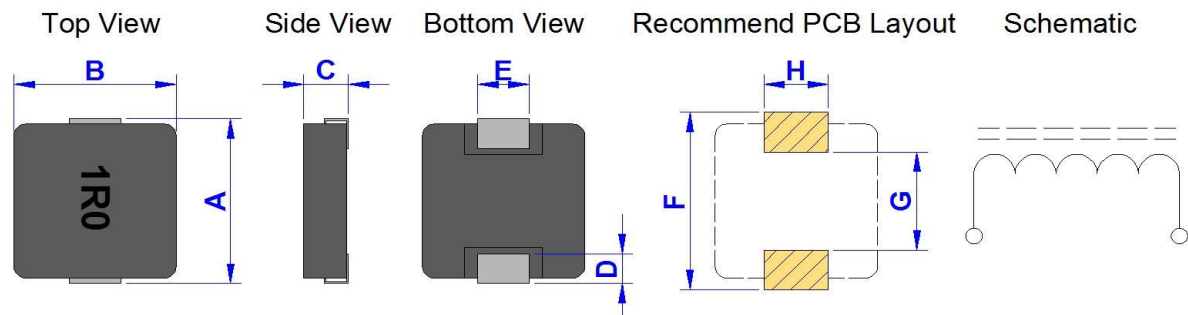
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GSTM4020P-SERIES

Dimension [mm] :



Marking : Inductance code

A (+/-0.25)	B (+/-0.25)	C (+/-0.2)	D (+/-0.3)	E (+/-0.2)	F(Ref.)	G(Ref.)	H(Ref.)
4.45	4.06	1.80	0.76	2.00	5.20	2.20	2.40

Electrical Characteristics :

Part No.	Inductance (μ H)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM4020P-R10□	0.10	N	3.2	4.0	35.0	14.0
GSTM4020P-R18□	0.18	N	4.6	5.4	28.0	13.5
GSTM4020P-R22□	0.22	N	6.6	7.3	24.0	13.0
GSTM4020P-R33□	0.33	M	7.8	8.6	18.0	10.0
GSTM4020P-R47□	0.47	M	11.2	14.0	12.0	8.0
GSTM4020P-R56□	0.56	M	13.5	16.0	10.0	7.3
GSTM4020P-R68□	0.68	M	16.0	19.0	10.0	7.0
GSTM4020P-1R0□	1.00	M	22.0	27.0	8.5	5.0
GSTM4020P-1R2□	1.20	M	25.0	30.0	7.8	4.8
GSTM4020P-1R5□	1.50	M	34.8	42.0	7.0	4.5
GSTM4020P-2R2□	2.20	M	51.0	61.0	6.0	4.0
GSTM4020P-3R3□	3.30	M	69.0	76.0	4.0	3.5
GSTM4020P-4R7□	4.70	M	95.0	105.0	3.5	2.6
GSTM4020P-5R6□	5.60	M	112.0	125.0	3.0	2.2
GSTM4020P-6R8□	6.80	M	150.0	172.0	2.8	2.1
GSTM4020P-8R2□	8.20	M	158.0	180.0	2.5	2.0
GSTM4020P-100□	10.00	M	215.0	243.0	2.3	1.8
GSTM4020P-150□	15.00	M	325.0	374.0	1.9	1.5
GSTM4020P-220□	22.00	M	470.0	500.0	1.4	1.2

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

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

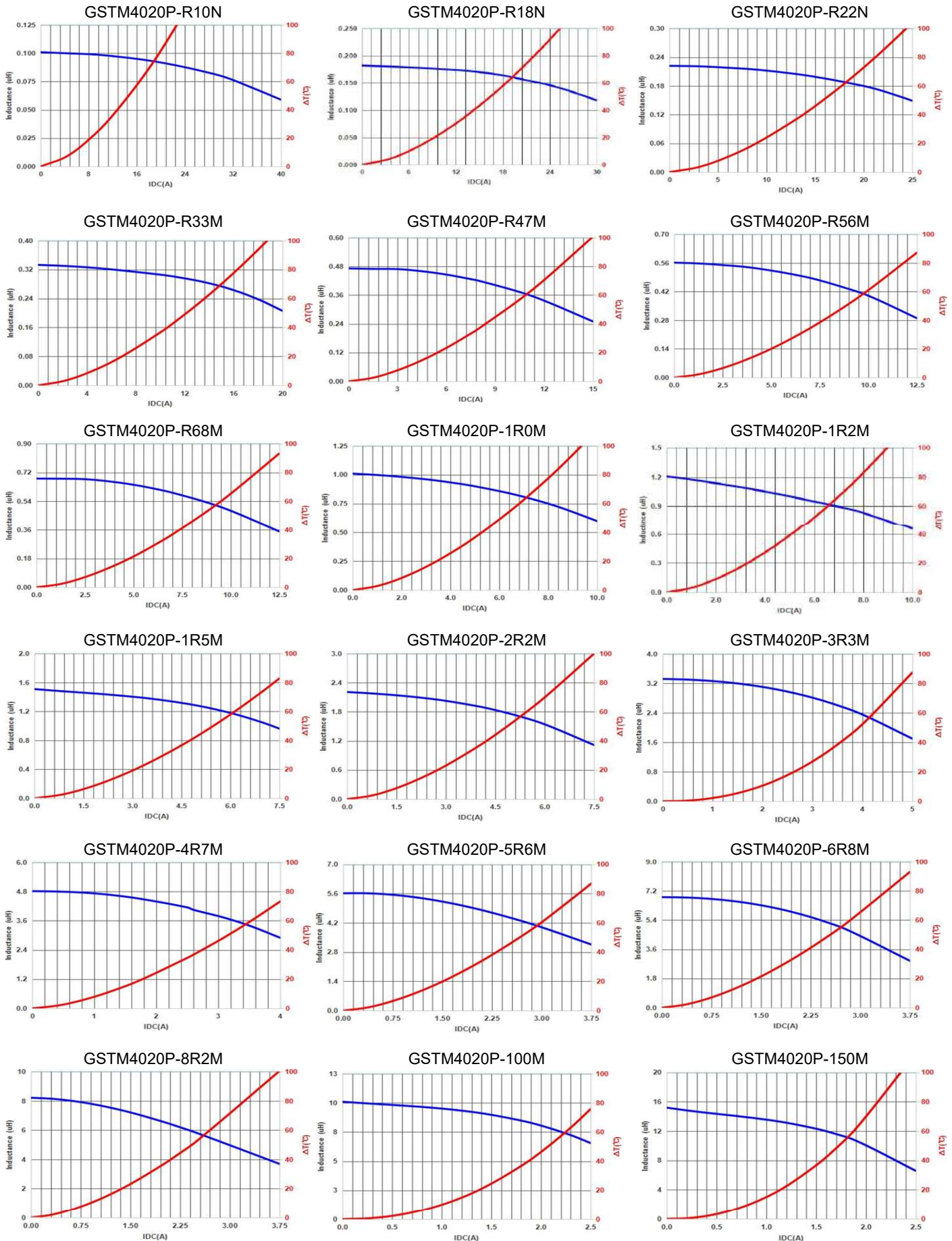
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

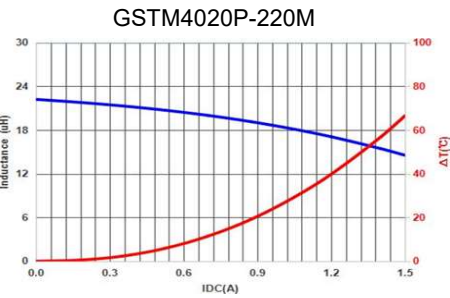
Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

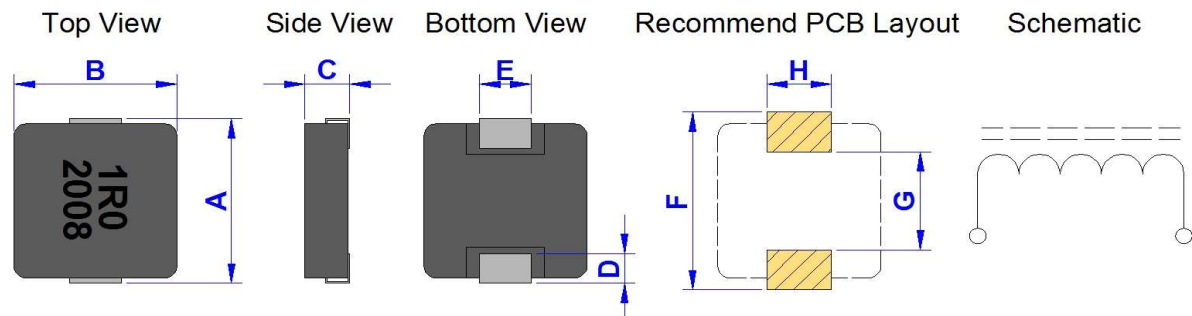
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM5012P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
5.70	5.20	1.00	1.10	2.50	6.20	2.20	2.80

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM5012P-R10□	0.10	N	4.3	5.2	14.5	14.0
GSTM5012P-R22□	0.22	N	5.5	6.7	14.0	10.7
GSTM5012P-R33□	0.33	M	7.8	9.4	13.5	8.5
GSTM5012P-R36□	0.36	M	10.0	11.5	13.0	8.0
GSTM5012P-R47□	0.47	M	13.6	15.8	11.0	7.0
GSTM5012P-R68□	0.68	M	21.5	24.5	9.0	6.0
GSTM5012P-1R0□	1.00	M	26.0	30.0	6.0	5.0
GSTM5012P-1R2□	1.20	M	33.0	40.0	5.5	4.5
GSTM5012P-1R5□	1.50	M	38.0	44.0	5.0	4.0
GSTM5012P-2R2□	2.20	M	65.0	75.0	4.0	3.5
GSTM5012P-3R3□	3.30	M	75.0	86.0	3.8	3.0
GSTM5012P-4R7□	4.70	M	100.0	115.0	3.2	2.5
GSTM5012P-5R6□	5.60	M	175.0	201.0	3.2	2.4
GSTM5012P-6R8□	6.80	M	193.0	222.0	3.0	2.0
GSTM5012P-8R2□	8.20	M	327.0	378.0	2.8	1.7
GSTM5012P-100□	10.00	M	335.0	385.0	1.8	1.5

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

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

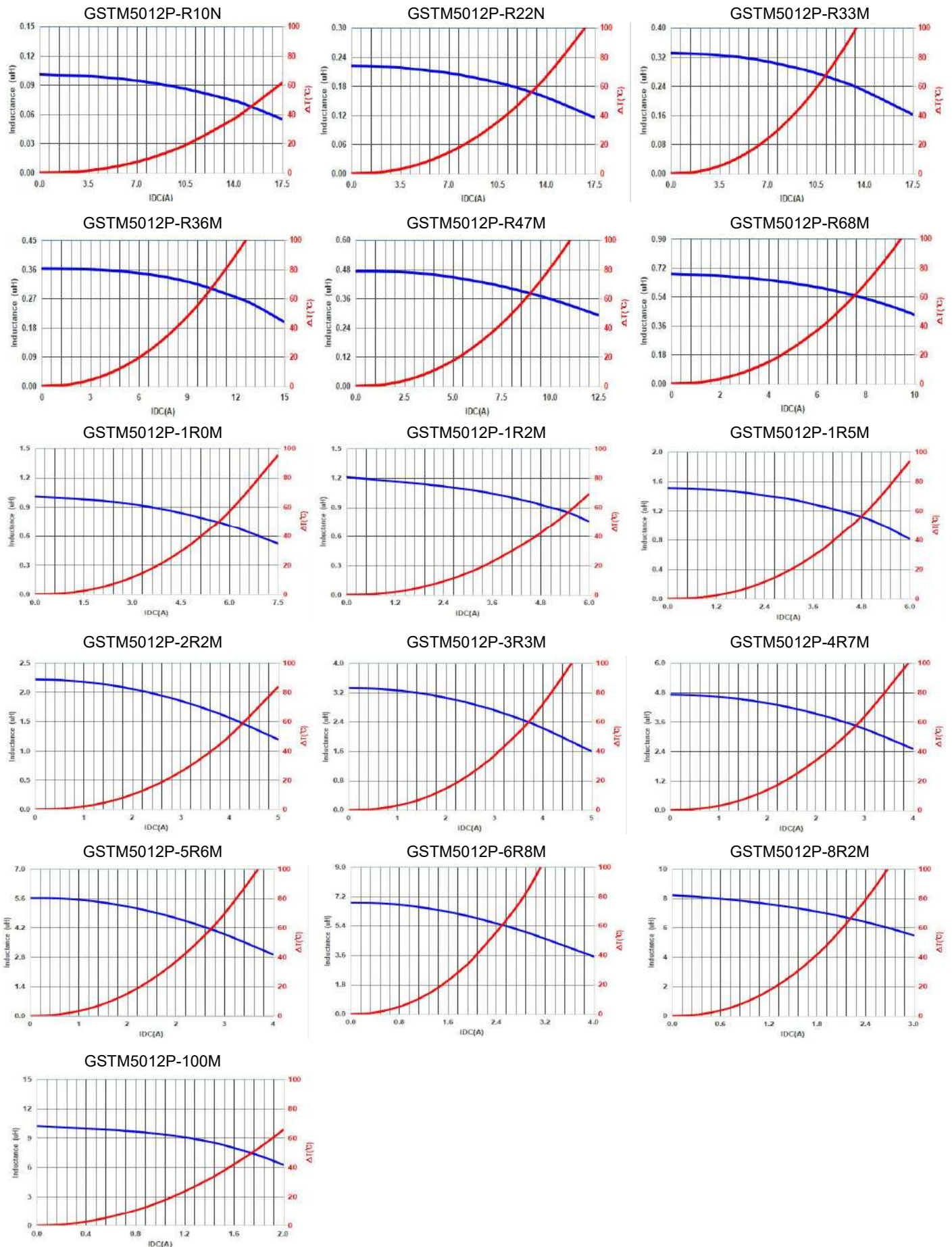
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

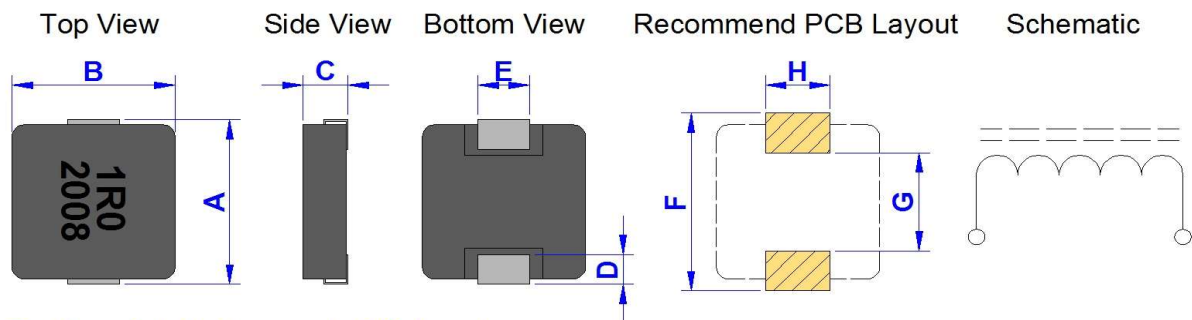
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM5015P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
5.70	5.20	1.30	1.10	2.50	6.20	2.20	2.80

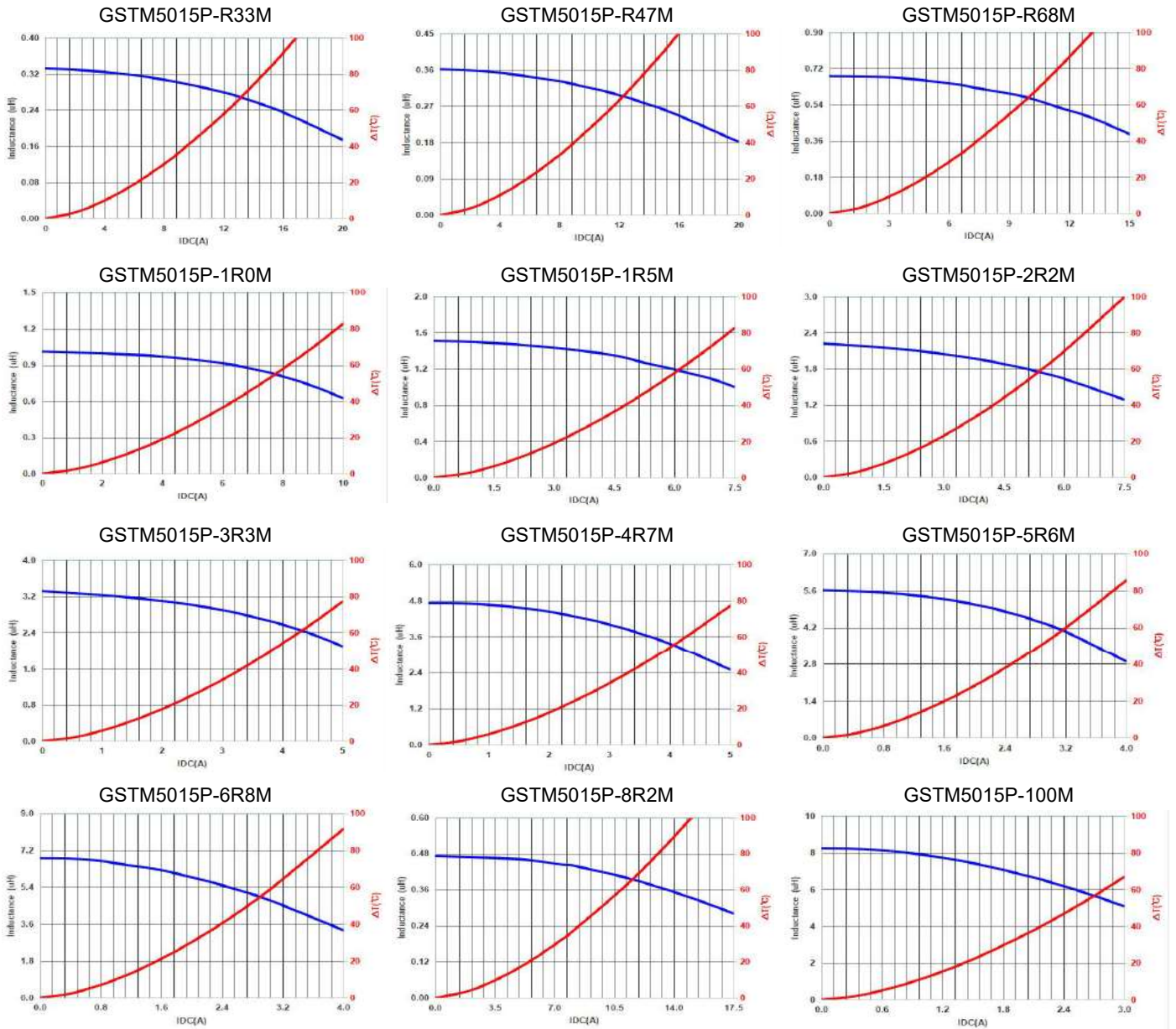
Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM5015P-R33□	0.33	M	8.5	9.8	16.0	9.0
GSTM5015P-R47□	0.47	M	12.0	13.8	15.0	8.0
GSTM5015P-R68□	0.68	M	14.0	16.2	13.0	7.0
GSTM5015P-1R0□	1.00	M	22.0	25.3	9.0	6.0
GSTM5015P-1R5□	1.50	M	39.0	45.0	7.0	4.5
GSTM5015P-2R2□	2.20	M	45.0	52.0	6.0	4.0
GSTM5015P-3R3□	3.30	M	78.0	90.0	4.5	3.2
GSTM5015P-4R7□	4.70	M	103.0	118.0	4.0	2.7
GSTM5015P-5R6□	5.60	M	126.0	152.0	3.2	2.4
GSTM5015P-6R8□	6.80	M	142.0	171.0	3.0	2.3
GSTM5015P-8R2□	8.20	M	175.0	210.0	2.6	2.1
GSTM5015P-100□	10.00	M	210.0	235.0	2.3	2.0

- * Test Condition: @100KHz , 1.0Vrms , 25℃ Ambient
- * Inductance Tolerance : M = +/-20% , N = +/-30%
- * Irms : Rated Current Loading when temperature rise approximately 40℃
- * Isat : Saturated Current measured at the point of L drop approximately 30%
- * The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

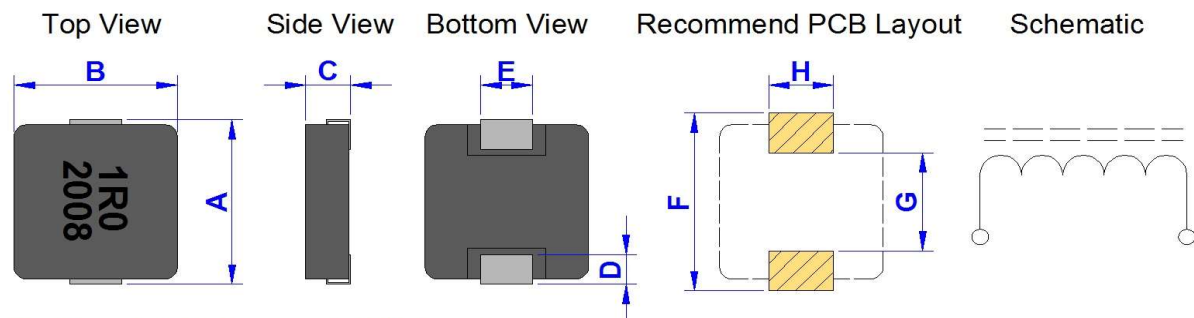
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM5018P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
5.70	5.20	1.60	1.10	2.50	6.20	2.20	2.80

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM5018P-R33□	0.33	M	7.5	8.6	15.0	11.0
GSTM5018P-R47□	0.47	M	9.8	11.3	14.0	10.0
GSTM5018P-R68□	0.68	M	12.4	14.3	13.0	9.0
GSTM5018P-1R0□	1.00	M	18.2	21.0	10.0	6.8
GSTM5018P-1R5□	1.50	M	26.0	30.0	9.0	6.0
GSTM5018P-2R2□	2.20	M	42.0	48.3	7.5	4.5
GSTM5018P-3R3□	3.30	M	60.0	69.0	5.0	3.5
GSTM5018P-4R7□	4.70	M	85.0	98.0	4.5	3.0
GSTM5018P-5R6□	5.60	M	110.0	127.0	4.0	2.5
GSTM5018P-6R8□	6.80	M	118.0	137.0	3.5	2.4
GSTM5018P-8R2□	8.20	M	143.0	165.0	3.0	2.3
GSTM5018P-100□	10.00	M	165.0	190.0	2.8	2.3

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

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

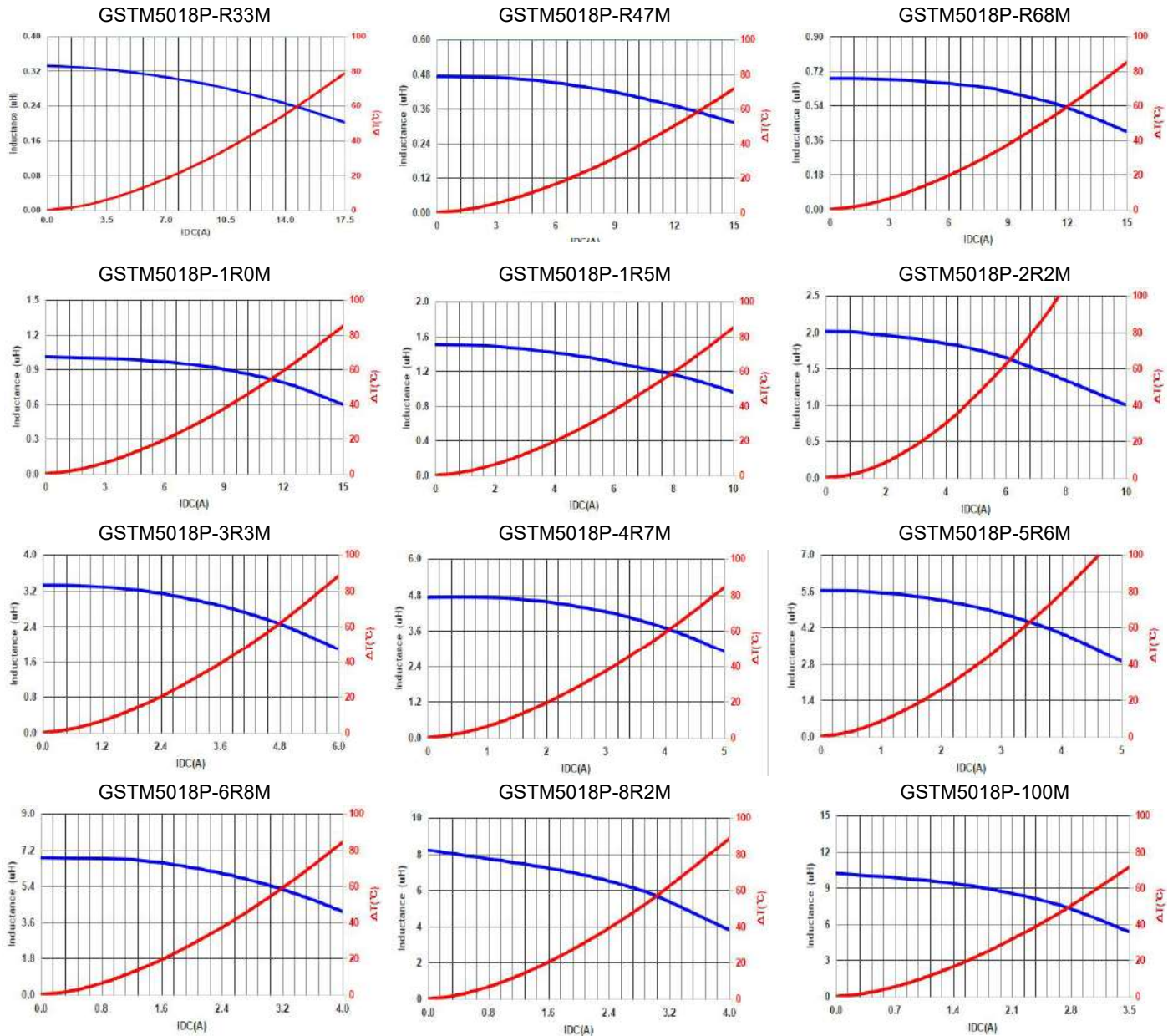
* **Irms** : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

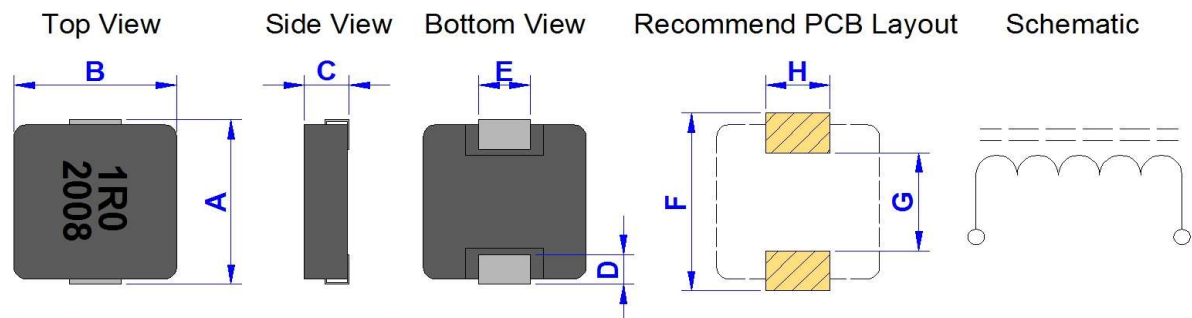
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM5020P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
5.70	5.20	1.80	1.10	2.50	6.20	2.20	2.80

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM5020P-R33□	0.33	M	6.3	7.3	21.3	12.0
GSTM5020P-R47□	0.47	M	7.3	8.6	18.0	11.5
GSTM5020P-R68□	0.68	M	11.0	12.4	12.8	10.0
GSTM5020P-1R0□	1.00	M	17.5	20.0	13.7	7.0
GSTM5020P-1R2□	1.20	M	23.0	28.0	11.0	6.2
GSTM5020P-1R5□	1.50	M	26.5	30.5	9.8	5.5
GSTM5020P-2R2□	2.20	M	42.0	50.0	9.0	4.2
GSTM5020P-3R3□	3.30	M	66.0	76.0	7.3	3.3
GSTM5020P-4R7□	4.70	M	103.0	116.0	5.0	2.8
GSTM5020P-5R6□	5.60	M	112.0	122.0	4.0	2.5
GSTM5020P-6R8□	6.80	M	130.0	150.0	3.8	2.4
GSTM5020P-8R2□	8.20	M	148.0	171.0	3.5	2.3
GSTM5020P-100□	10.00	M	180.0	199.0	3.4	2.3

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

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

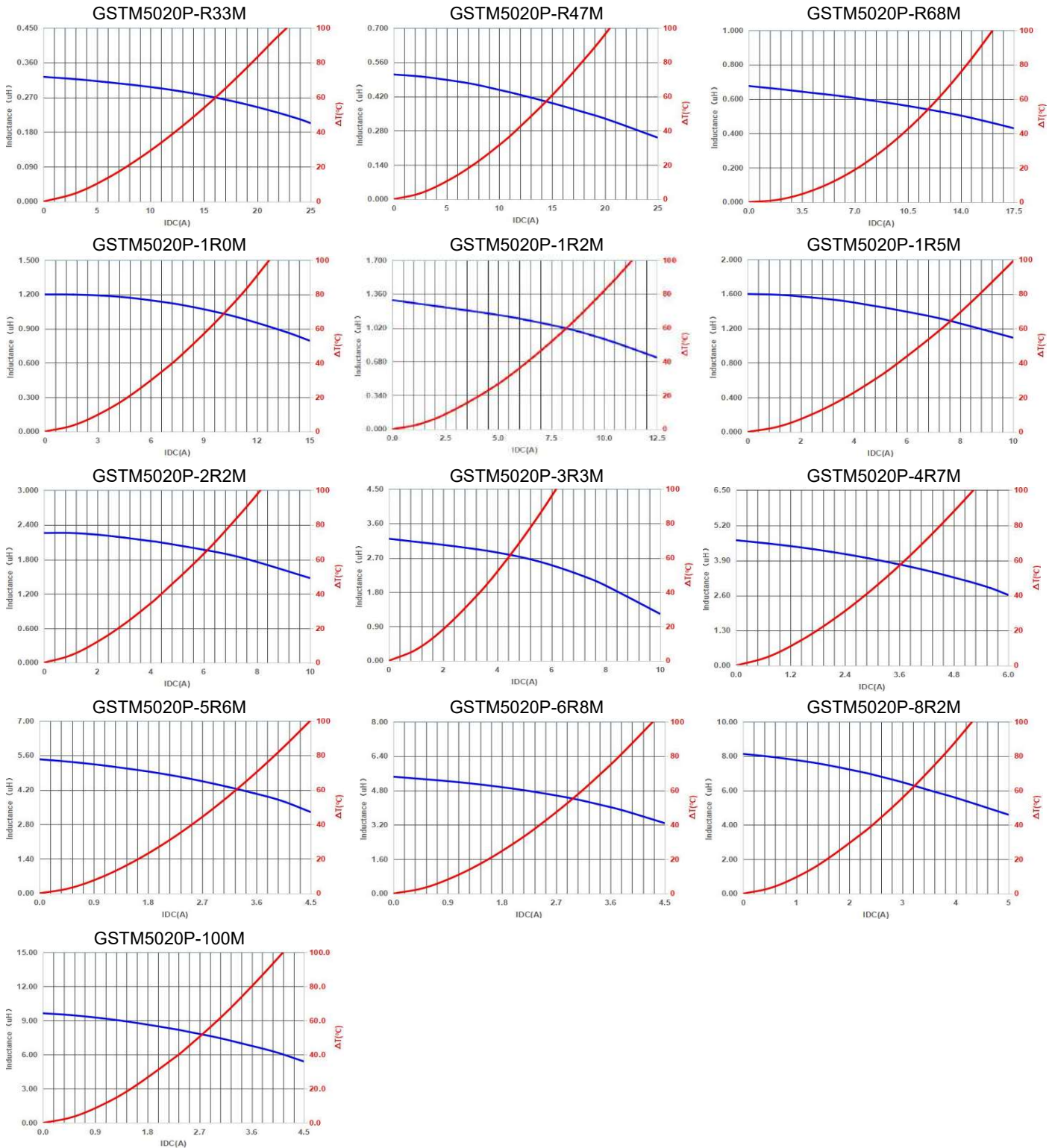
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

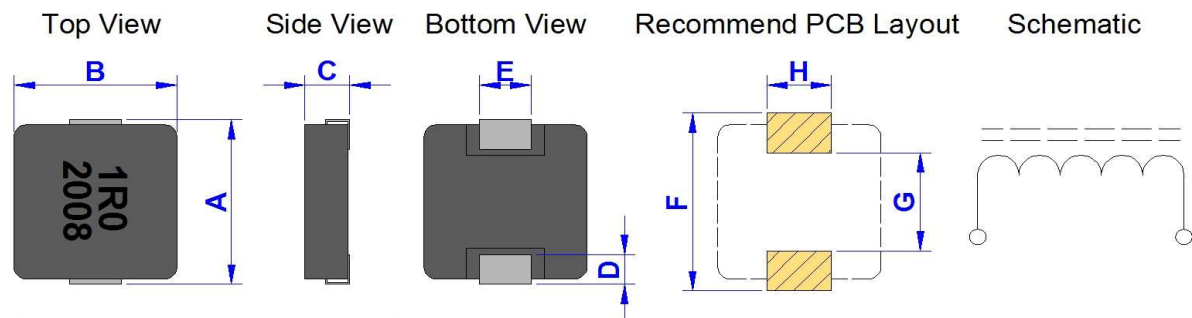
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM5030P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
5.70	5.20	2.80	1.10	1.50	6.20	2.50	1.80

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM5030P-R33□	0.33	M	4.3	5.0	18.0	14.00
GSTM5030P-R47□	0.47	M	6.4	7.4	16.0	12.00
GSTM5030P-R68□	0.68	M	10.0	12.0	14.0	8.50
GSTM5030P-1R0□	1.00	M	13.0	14.0	11.0	7.00
GSTM5030P-1R2□	1.20	M	14.0	16.0	11.0	6.50
GSTM5030P-1R5□	1.50	M	16.0	25.0	10.0	6.00
GSTM5030P-2R2□	2.20	M	25.0	35.0	9.0	5.50
GSTM5030P-3R3□	3.30	M	32.0	38.0	8.0	5.00
GSTM5030P-4R7□	4.70	M	50.0	53.0	6.0	4.60
GSTM5030P-5R6□	5.60	M	55.0	63.0	4.5	4.25
GSTM5030P-6R8□	6.80	M	68.0	76.2	4.3	4.00
GSTM5030P-100□	10.00	M	110.0	128.0	3.5	2.75
GSTM5030P-220□	22.00	M	220.0	250.0	1.7	1.90

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

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

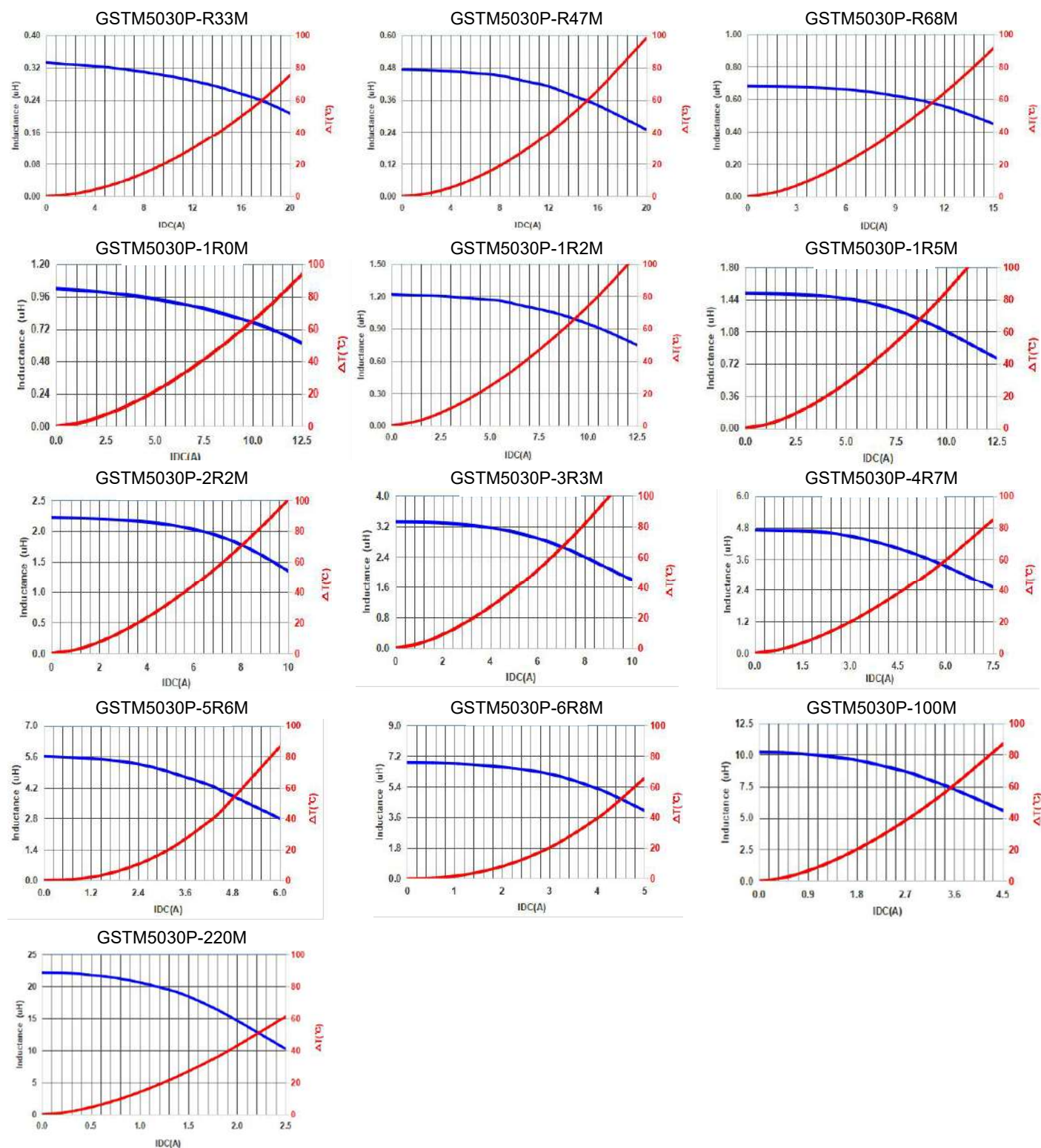
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

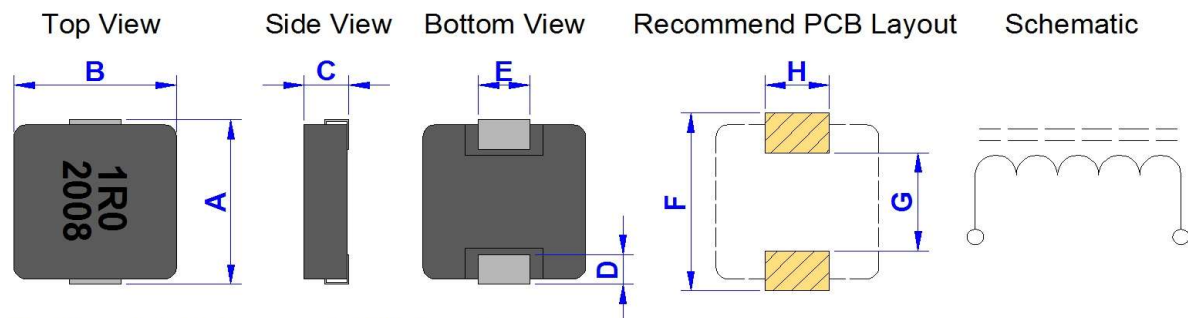
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6012P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.00	6.60	1.00	1.80	2.50	7.70	2.50	3.00

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6012P-R22□	0.22	N	6.5	7.5	19.0	11.0
GSTM6012P-R33□	0.33	M	9.0	10.0	16.0	9.5
GSTM6012P-R47□	0.47	M	13.0	17.0	12.0	8.5
GSTM6012P-R68□	0.68	M	17.0	19.0	9.0	7.0
GSTM6012P-1R0□	1.00	M	27.0	30.0	7.0	6.0
GSTM6012P-1R2□	1.20	M	31.0	36.0	6.8	5.0
GSTM6012P-1R5□	1.50	M	35.0	40.0	6.5	4.5
GSTM6012P-2R2□	2.20	M	53.0	61.0	5.0	4.0
GSTM6012P-3R3□	3.30	M	90.0	103.0	4.0	3.2
GSTM6012P-4R7□	4.70	M	130.0	150.0	3.8	2.5
GSTM6012P-6R8□	6.80	M	172.0	198.0	3.0	2.1
GSTM6012P-100□	10.00	M	280.0	290.0	2.5	1.8

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

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

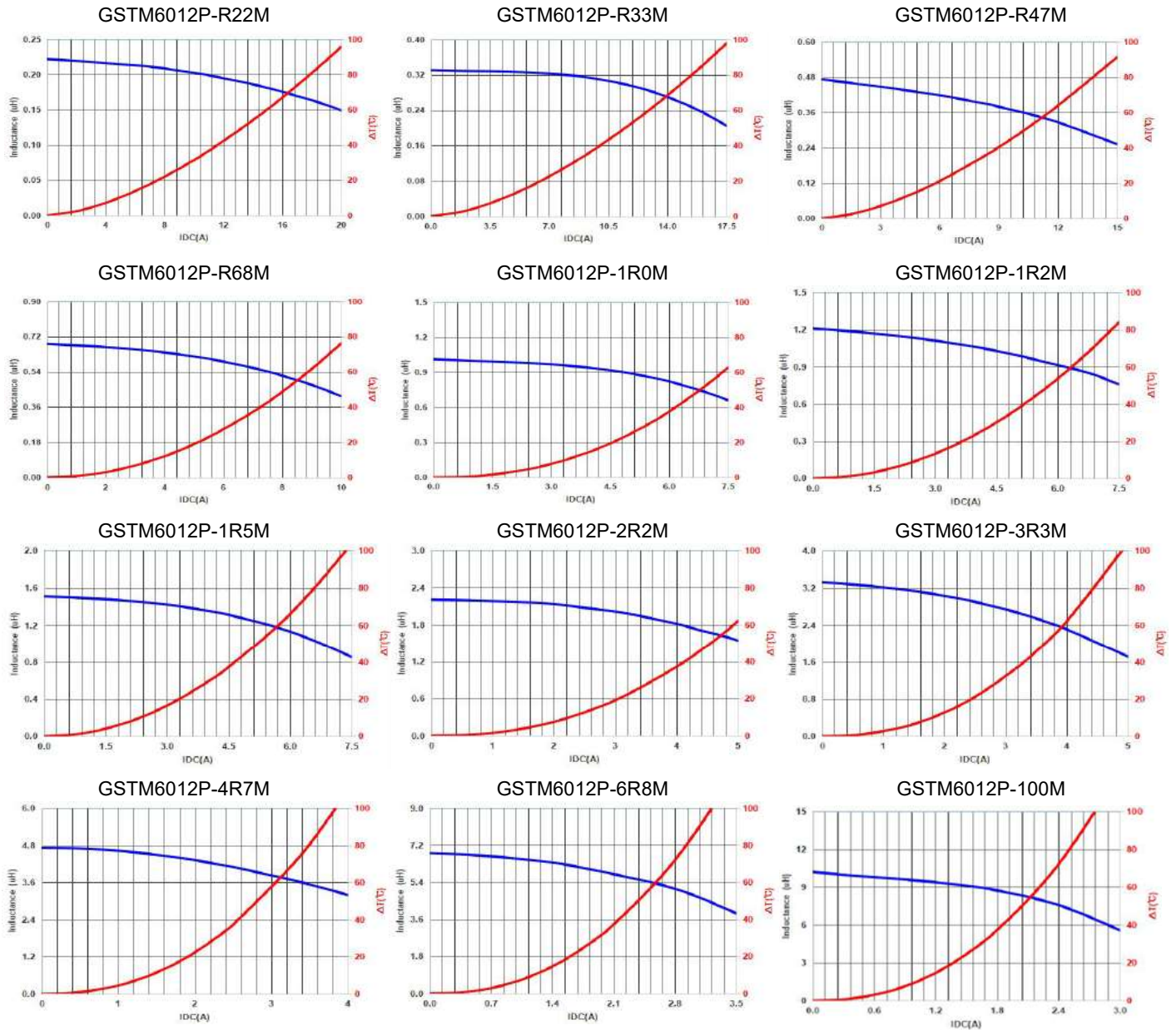
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

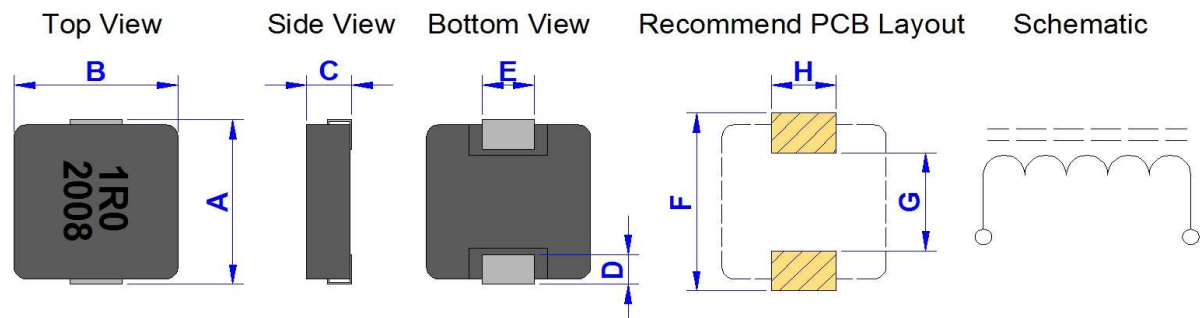
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6015P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.00	6.60	1.30	1.80	3.00	7.70	2.50	3.50

Electrical Characteristics :

Part No.	Inductance (μ H)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6015P-R22□	0.22	N	4.3	5.2	22.0	14.0
GSTM6015P-R33□	0.33	M	6.6	7.6	18.0	11.0
GSTM6015P-R47□	0.47	M	9.0	10.3	16.0	9.5
GSTM6015P-R68□	0.68	M	13.8	15.2	15.0	7.5
GSTM6015P-1R0□	1.00	M	23.0	25.8	12.0	6.5
GSTM6015P-1R2□	1.20	M	29.0	34.0	10.5	5.6
GSTM6015P-1R5□	1.50	M	37.0	42.5	9.5	5.0
GSTM6015P-2R2□	2.20	M	48.0	55.0	6.5	4.5
GSTM6015P-3R3□	3.30	M	62.0	74.0	6.0	4.2
GSTM6015P-4R7□	4.70	M	96.0	111.0	5.0	3.8
GSTM6015P-5R6□	5.60	M	115.0	138.0	4.5	3.0
GSTM6015P-6R8□	6.80	M	128.0	148.0	3.5	2.6
GSTM6015P-8R2□	8.20	M	153.0	184.0	3.2	2.4
GSTM6015P-100□	10.00	M	180.0	216.0	2.8	2.3

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

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

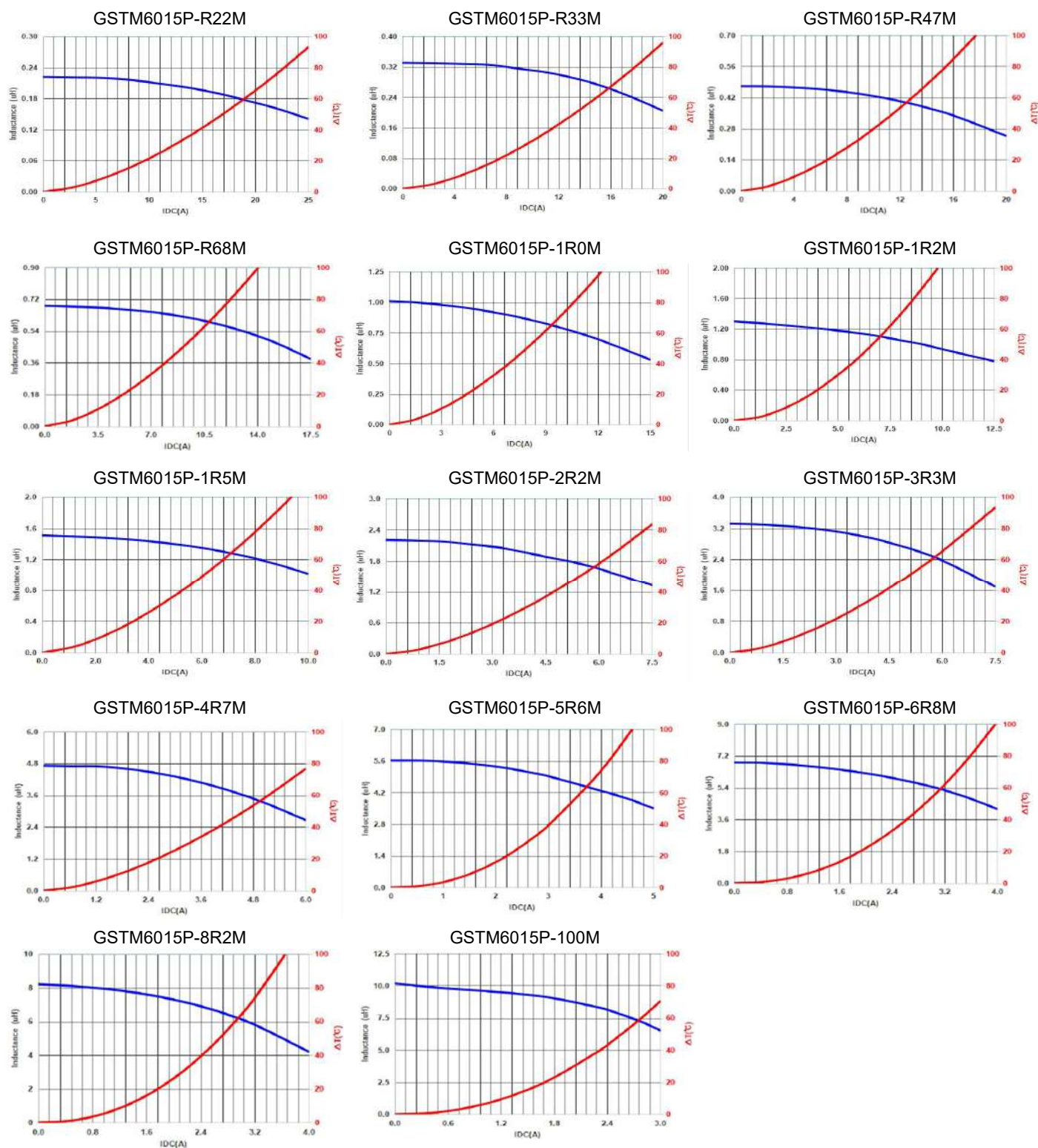
* Irms : Rated Current Loading when temperature rise approximately 40°C

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

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

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

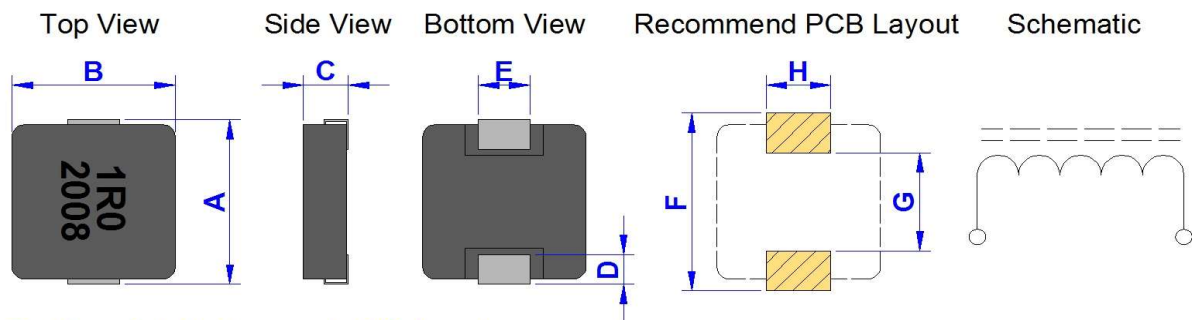
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6018P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.00	6.60	1.60	1.80	3.00	7.70	2.50	3.50

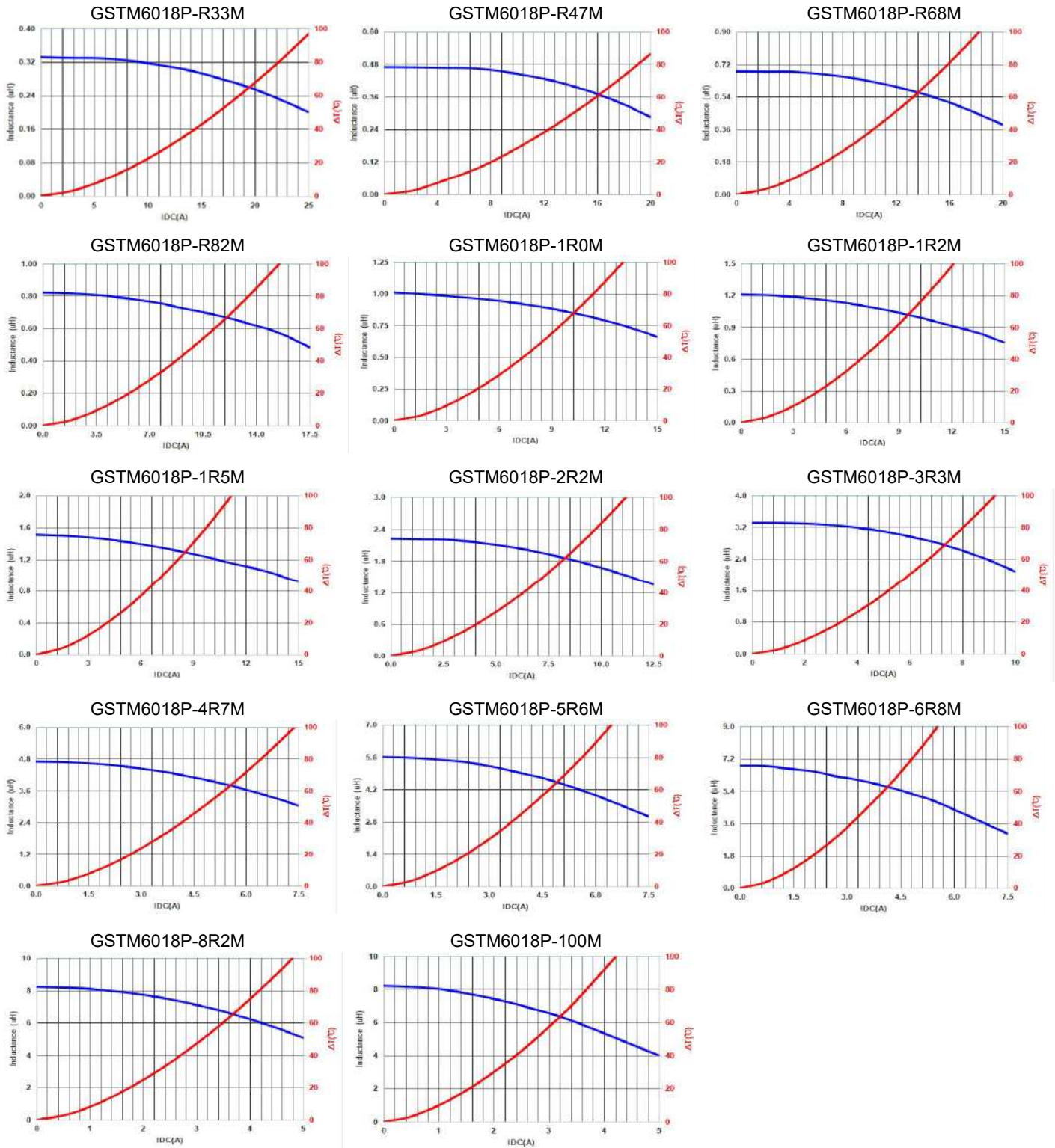
Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6018P-R33□	0.33	M	4.8	5.8	22.0	14.0
GSTM6018P-R47□	0.47	M	6.4	7.4	18.0	12.0
GSTM6018P-R68□	0.68	M	9.5	11.0	17.0	10.0
GSTM6018P-R82□	0.82	M	11.5	14.0	15.5	8.5
GSTM6018P-1R0□	1.00	M	14.5	17.0	14.0	7.0
GSTM6018P-1R2□	1.20	M	20.0	24.0	13.5	6.5
GSTM6018P-1R5□	1.50	M	21.0	25.2	13.0	6.0
GSTM6018P-2R2□	2.20	M	31.0	35.0	11.0	6.0
GSTM6018P-3R3□	3.30	M	40.0	46.0	9.0	5.0
GSTM6018P-4R7□	4.70	M	68.0	76.0	7.0	4.0
GSTM6018P-5R6□	5.60	M	78.0	86.0	6.0	3.5
GSTM6018P-6R8□	6.80	M	93.0	104.0	5.5	3.0
GSTM6018P-8R2□	8.20	M	123.0	140.0	4.5	2.6
GSTM6018P-100□	10.00	M	143.0	160.0	3.5	2.3

- * Test Condition: @100KHz , 1.0Vrms , 25℃ Ambient
- * Inductance Tolerance : M = +/-20% , N = +/-30%
- * Irms : Rated Current Loading when temperature rise approximately 40℃
- * Isat : Saturated Current measured at the point of L drop approximately 30%
- * The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

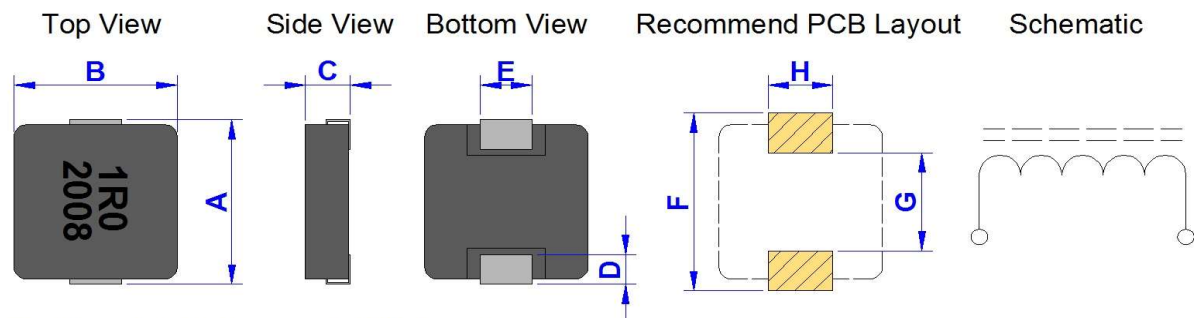
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6020P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.00	6.60	1.80	1.80	3.00	7.70	2.50	3.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6020P-R10□	0.10	N	2.0	2.4	40.0	21.0
GSTM6020P-R20□	0.20	N	2.5	3.0	35.0	18.0
GSTM6020P-R33□	0.33	M	4.5	5.0	25.0	14.0
GSTM6020P-R47□	0.47	M	7.1	8.3	20.0	11.7
GSTM6020P-R68□	0.68	M	8.3	10.0	16.0	10.5
GSTM6020P-1R0□	1.00	M	16.5	18.0	14.0	8.0
GSTM6020P-1R5□	1.50	M	23.0	27.0	12.0	7.0
GSTM6020P-2R2□	2.20	M	32.0	37.0	10.0	6.0
GSTM6020P-3R3□	3.30	M	43.0	48.0	8.0	5.0
GSTM6020P-4R7□	4.70	M	53.0	60.0	7.0	4.5
GSTM6020P-5R6□	5.60	M	59.0	68.0	6.0	4.0
GSTM6020P-6R8□	6.80	M	63.0	73.0	5.5	4.0
GSTM6020P-8R2□	8.20	M	101.0	116.0	5.0	3.2
GSTM6020P-100□	10.00	M	134.0	154.0	4.0	2.8
GSTM6020P-220□	22.00	M	236.0	280.0	2.5	1.5

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

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

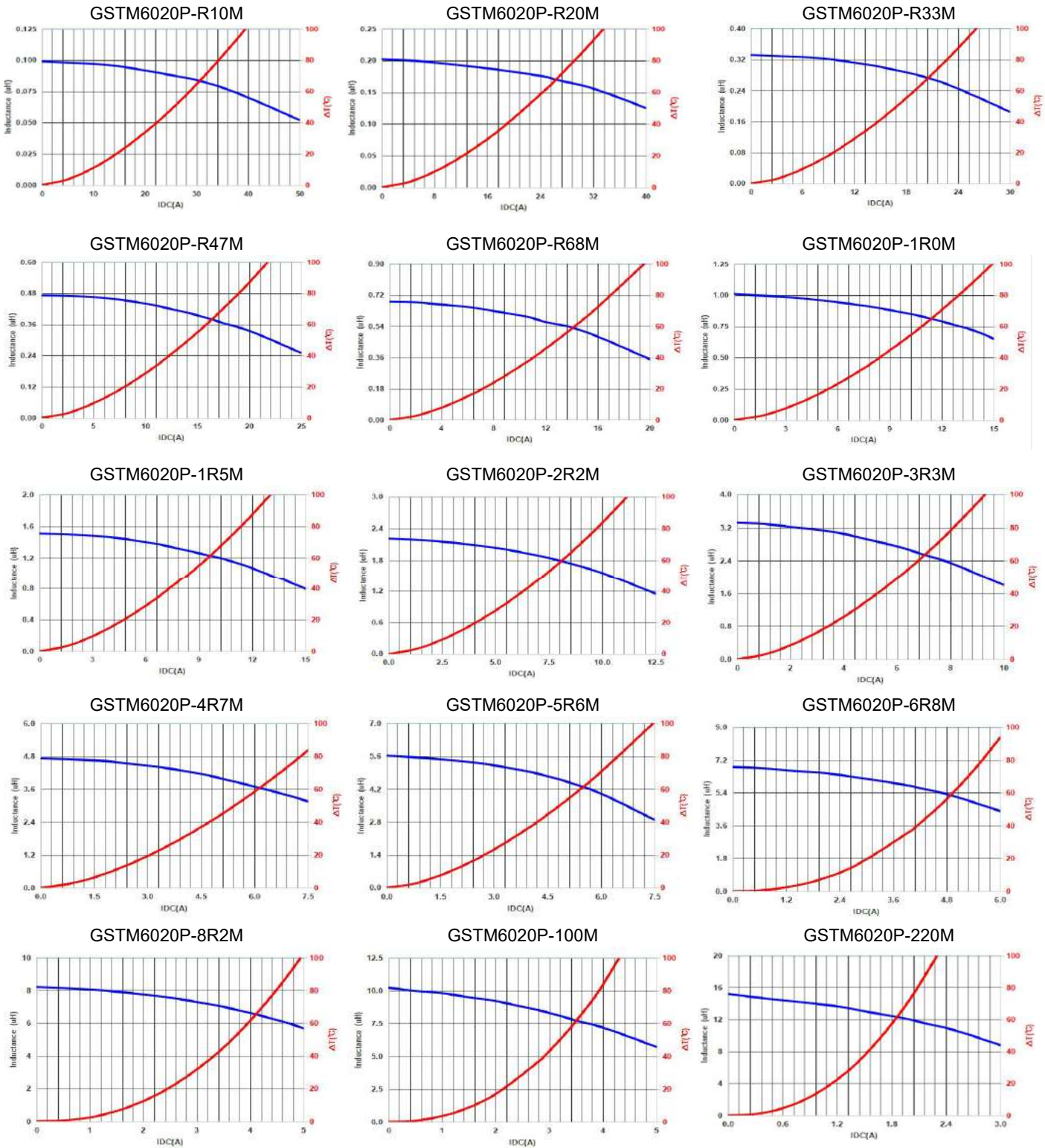
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

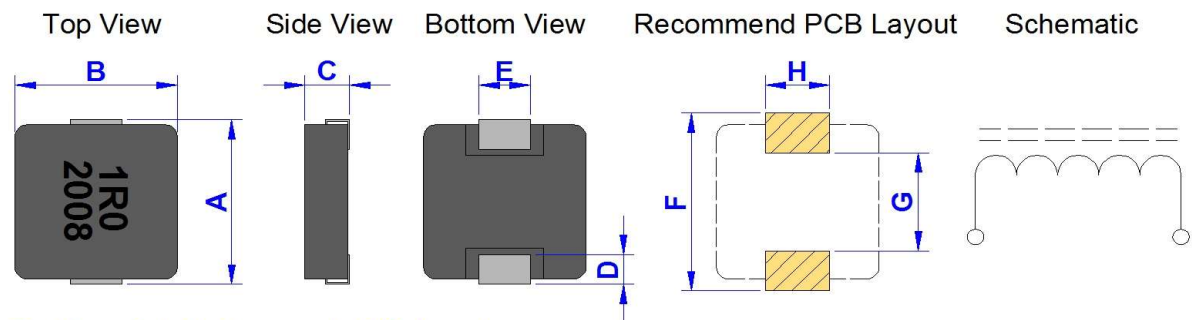
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6024P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.00	6.60	2.20	1.80	3.00	7.70	2.50	3.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6024P-R10□	0.10	N	1.4	1.7	70.0	30.0
GSTM6024P-R15□	0.15	N	1.8	2.3	45.0	30.0
GSTM6024P-R20□	0.20	M	1.9	2.8	40.0	23.0
GSTM6024P-R22□	0.22	M	2.0	3.2	34.0	21.0
GSTM6024P-R33□	0.33	M	3.6	4.4	30.0	18.0
GSTM6024P-R36□	0.36	M	3.8	4.6	29.0	17.0
GSTM6024P-R47□	0.47	M	4.8	5.1	26.0	15.0
GSTM6024P-R56□	0.56	M	5.5	6.5	24.0	13.0
GSTM6024P-R60□	0.60	M	5.7	6.9	22.0	13.0
GSTM6024P-R68□	0.68	M	6.4	7.2	21.0	13.0
GSTM6024P-R82□	0.82	M	8.0	9.5	17.0	11.0
GSTM6024P-1R0□	1.00	M	10.5	13.5	16.0	11.0
GSTM6024P-1R5□	1.50	M	17.0	20.0	15.0	9.0
GSTM6024P-2R2□	2.20	M	23.0	28.0	14.0	7.0
GSTM6024P-3R3□	3.30	M	34.0	39.0	10.0	6.0
GSTM6024P-4R7□	4.70	M	41.0	50.0	9.0	5.5
GSTM6024P-5R6□	5.60	M	56.0	62.0	8.0	5.0
GSTM6024P-6R8□	6.80	M	65.0	72.0	7.0	4.0
GSTM6024P-8R2□	8.20	M	81.0	95.0	6.0	3.6
GSTM6024P-100□	10.00	M	92.0	101.0	5.0	3.2
GSTM6024P-150□	15.00	M	150.0	180.0	3.5	2.5
GSTM6024P-220□	22.00	M	185.0	215.0	3.0	1.8

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

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

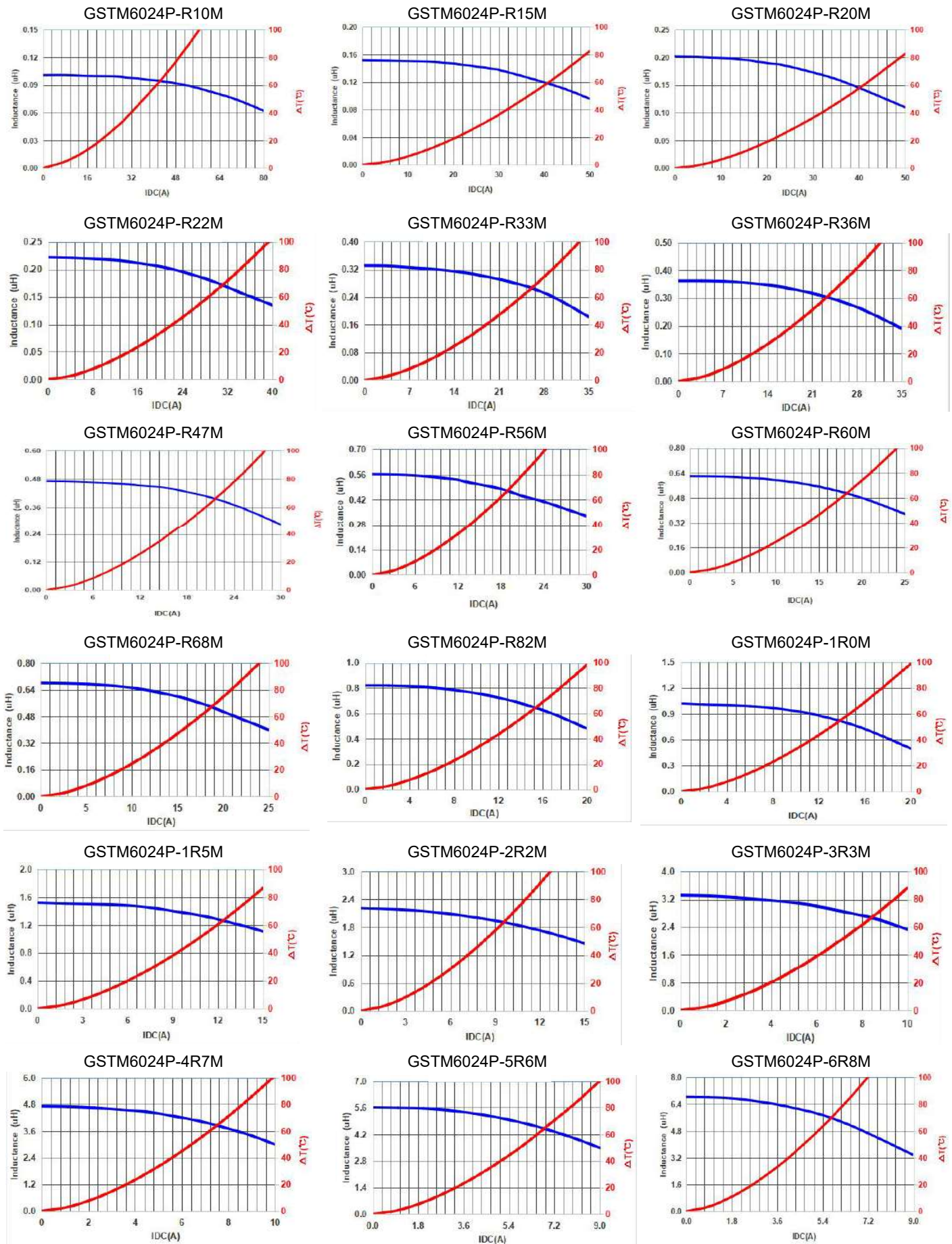
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

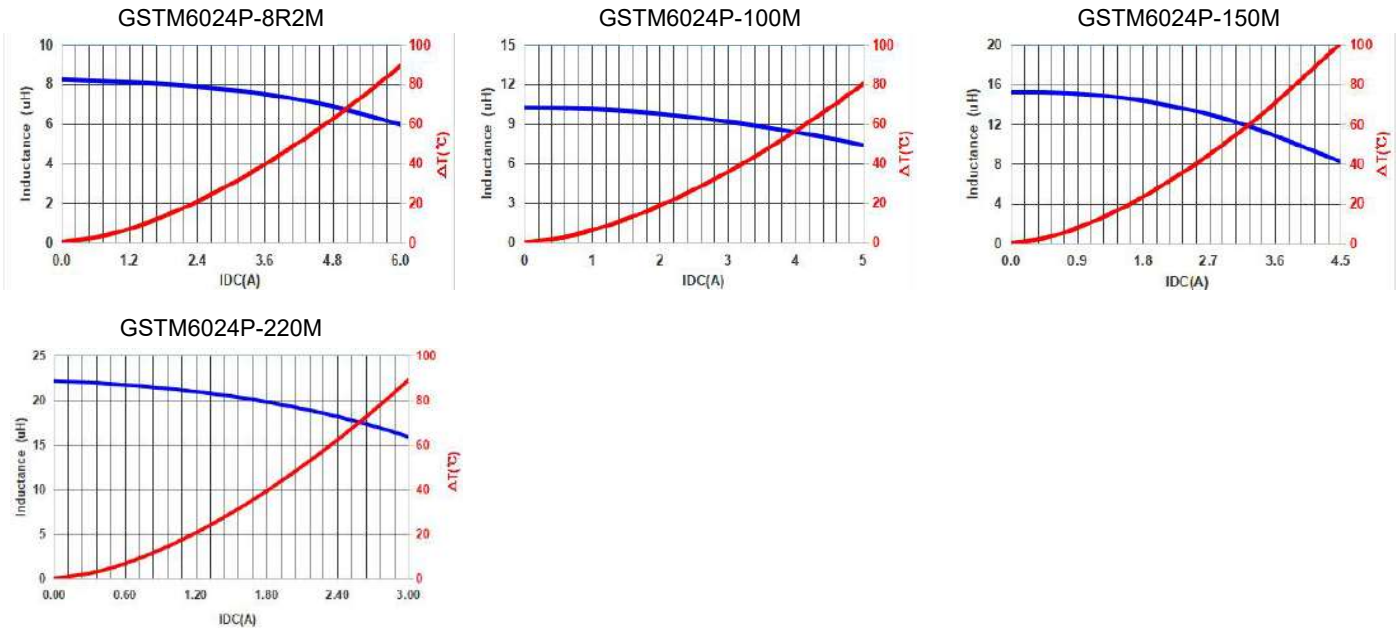
Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

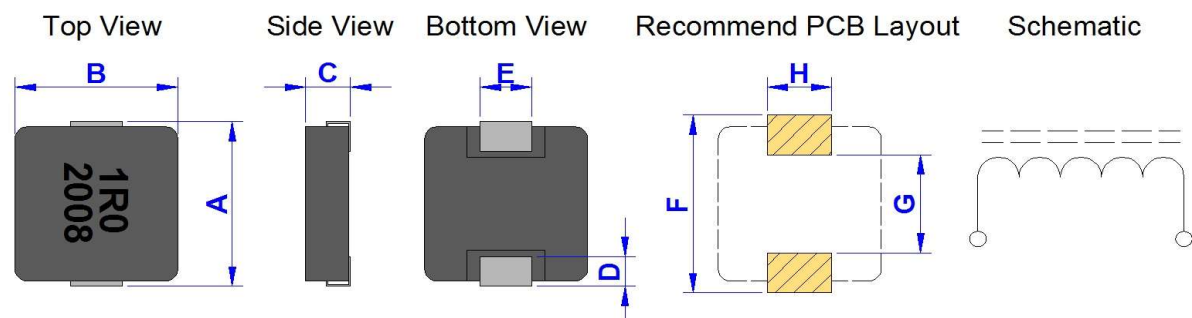
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6030P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.30	6.60	2.80	1.80	3.00	8.40	2.50	3.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance M/N	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6030P-R10□	0.10	N	1.2	1.7	60.0	32.5
GSTM6030P-R18□	0.18	N	1.7	2.3	43.0	25.0
GSTM6030P-R22□	0.22	N	2.1	2.8	40.0	23.0
GSTM6030P-R33□	0.33	M	3.5	3.9	32.0	20.0
GSTM6030P-R47□	0.47	M	4.0	4.2	26.0	17.5
GSTM6030P-R56□	0.56	M	4.7	5.0	25.5	16.5
GSTM6030P-R68□	0.68	M	4.8	5.5	25.0	15.5
GSTM6030P-R75□	0.75	M	5.5	6.6	24.5	14.5
GSTM6030P-R82□	0.82	M	6.7	8.0	24.0	13.0
GSTM6030P-1R0□	1.00	M	8.3	10.0	22.0	11.0
GSTM6030P-1R5□	1.50	M	13.0	15.0	18.0	9.0
GSTM6030P-1R8□	1.80	M	14.0	17.0	16.0	8.5
GSTM6030P-2R2□	2.20	M	18.0	20.0	14.0	8.0
GSTM6030P-2R5□	2.50	M	20.0	22.0	13.0	7.0
GSTM6030P-3R3□	3.30	M	28.0	30.0	13.5	6.0
GSTM6030P-4R7□	4.70	M	37.0	40.0	10.0	5.5
GSTM6030P-5R6□	5.60	M	43.0	48.0	9.0	5.0
GSTM6030P-6R8□	6.80	M	54.0	60.0	8.0	4.5
GSTM6030P-8R2□	8.20	M	64.0	68.0	7.5	4.0
GSTM6030P-100□	10.00	M	75.0	85.0	6.0	3.5
GSTM6030P-150□	15.00	M	107.0	123.0	4.0	3.0
GSTM6030P-220□	22.00	M	165.0	190.0	3.5	2.0
GSTM6030P-270□	27.00	M	185.0	220.0	3.0	2.0
GSTM6030P-330□	33.00	M	200.0	240.0	2.5	2.0
GSTM6030P-470□	47.00	M	302.0	363.0	2.0	1.8

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

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

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

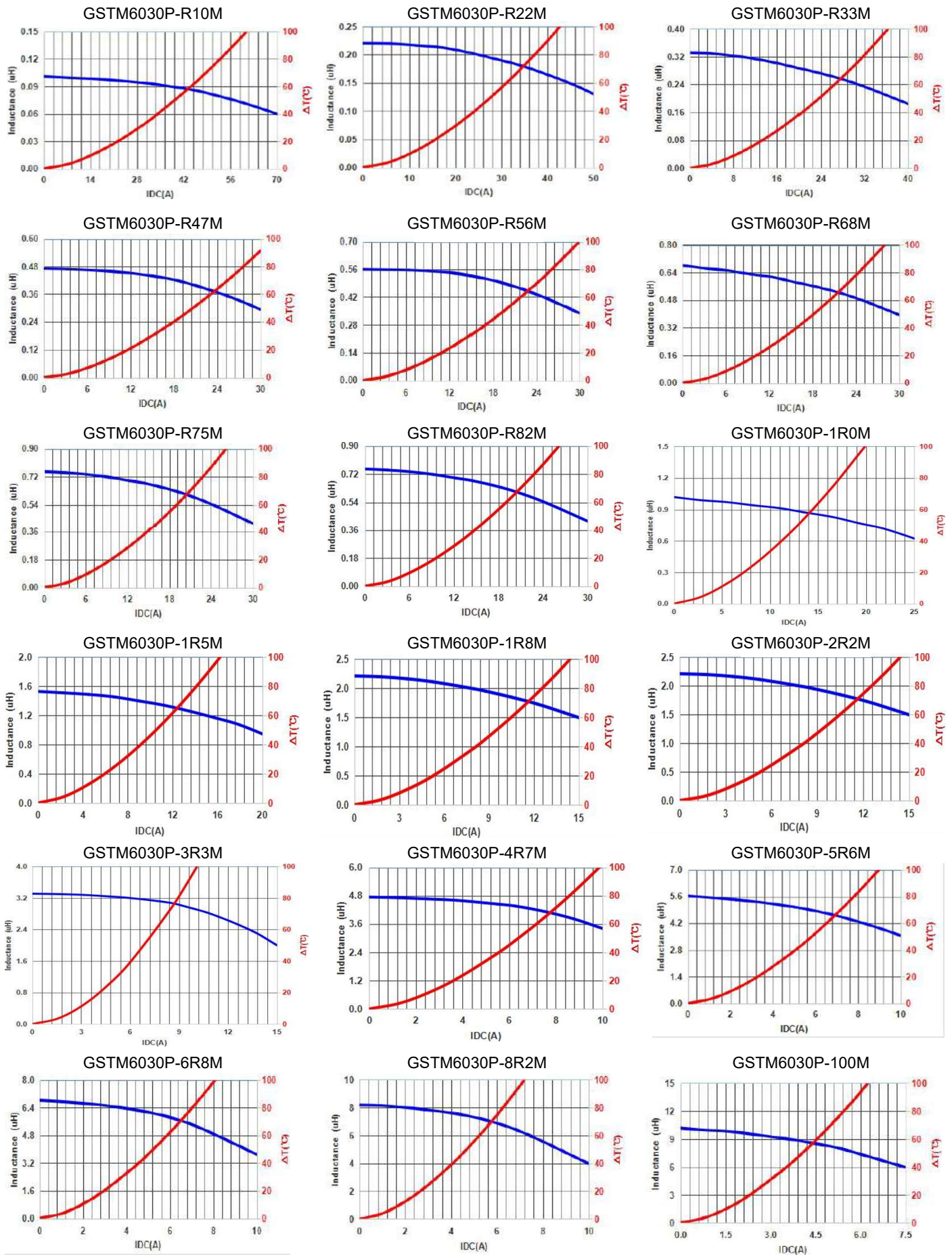
* Isat : Saturated Current measured at the point of L drop approximately 30%

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



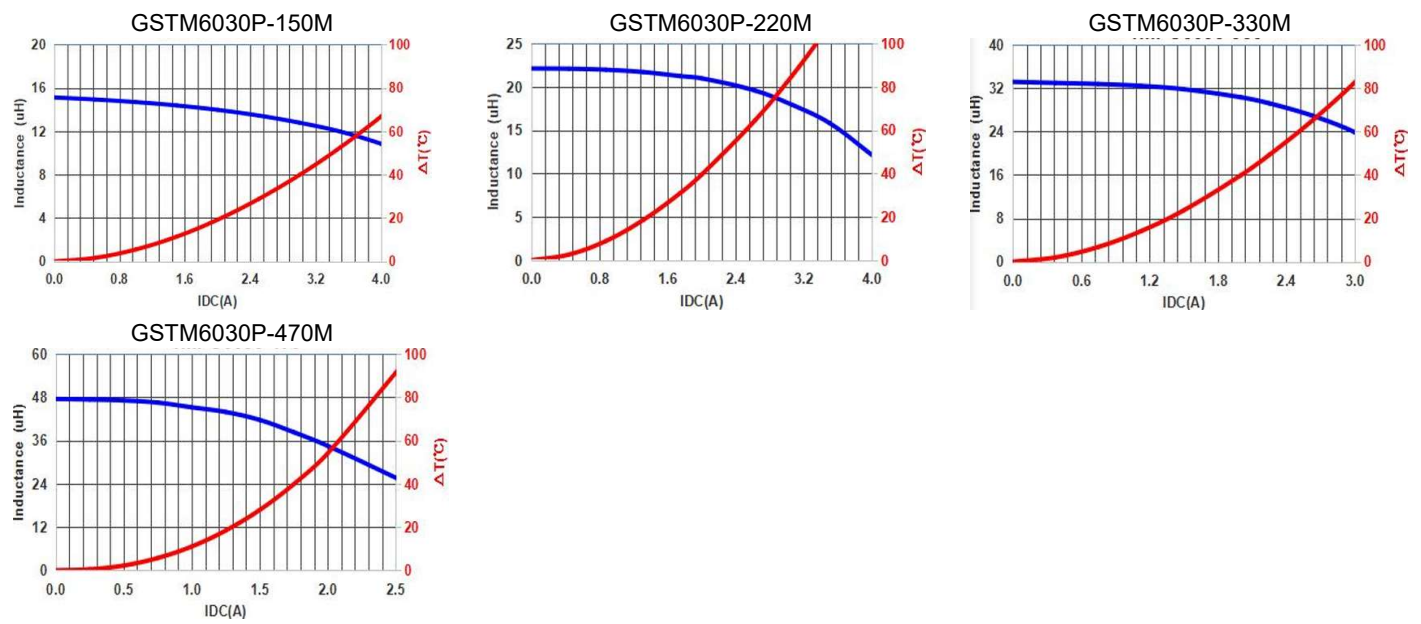
Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

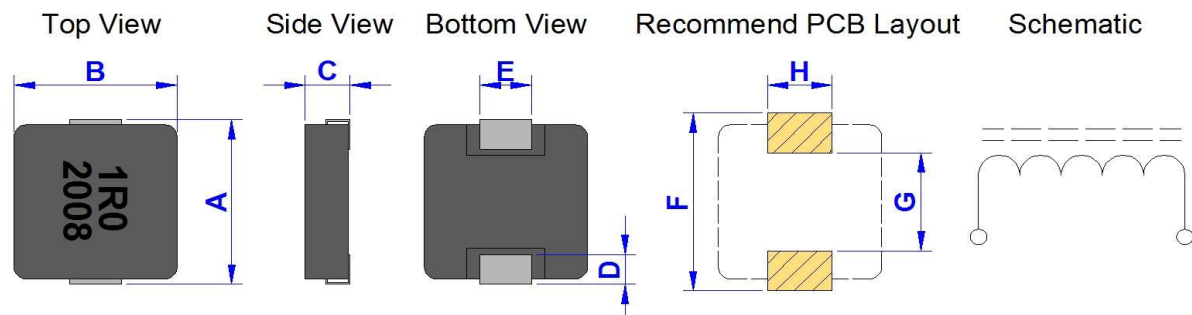
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM6050P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
7.30	6.60	4.80	1.80	3.00	8.40	2.50	3.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM6050P-R33□	0.33	M	2.5	3.0	32.0	25.0
GSTM6050P-R47□	0.47	M	3.5	3.9	30.0	22.0
GSTM6050P-R56□	0.56	M	3.6	4.2	27.0	20.0
GSTM6050P-R60□	0.60	M	3.8	4.3	25.0	19.0
GSTM6050P-R68□	0.68	M	4.0	4.5	24.0	18.0
GSTM6050P-R82□	0.82	M	4.6	4.9	22.0	16.5
GSTM6050P-1R0□	1.00	M	6.1	6.5	20.0	15.0
GSTM6050P-1R2□	1.20	M	6.7	7.5	18.0	14.0
GSTM6050P-1R5□	1.50	M	8.6	9.0	16.5	12.0
GSTM6050P-2R2□	2.20	M	11.2	12.0	14.0	10.0
GSTM6050P-3R3□	3.30	M	19.0	20.9	12.0	8.0
GSTM6050P-4R7□	4.70	M	28.0	30.8	10.0	6.5
GSTM6050P-5R6□	5.60	M	43.5	49.0	9.0	6.0
GSTM6050P-6R8□	6.80	M	46.0	51.5	8.5	5.5
GSTM6050P-8R2□	8.20	M	56.0	63.0	8.0	5.0
GSTM6050P-100□	10.00	M	60.0	69.0	7.5	4.0
GSTM6050P-220□	22.00	M	140.0	170.0	5.5	2.5
GSTM6050P-330□	33.00	M	173.0	200.0	3.5	2.0
GSTM6050P-470□	47.00	M	290.0	330.0	2.7	1.9
GSTM6050P-560□	56.00	M	342.0	396.0	2.1	1.6
GSTM6050P-680□	68.00	M	386.0	445.0	2.0	1.2

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

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

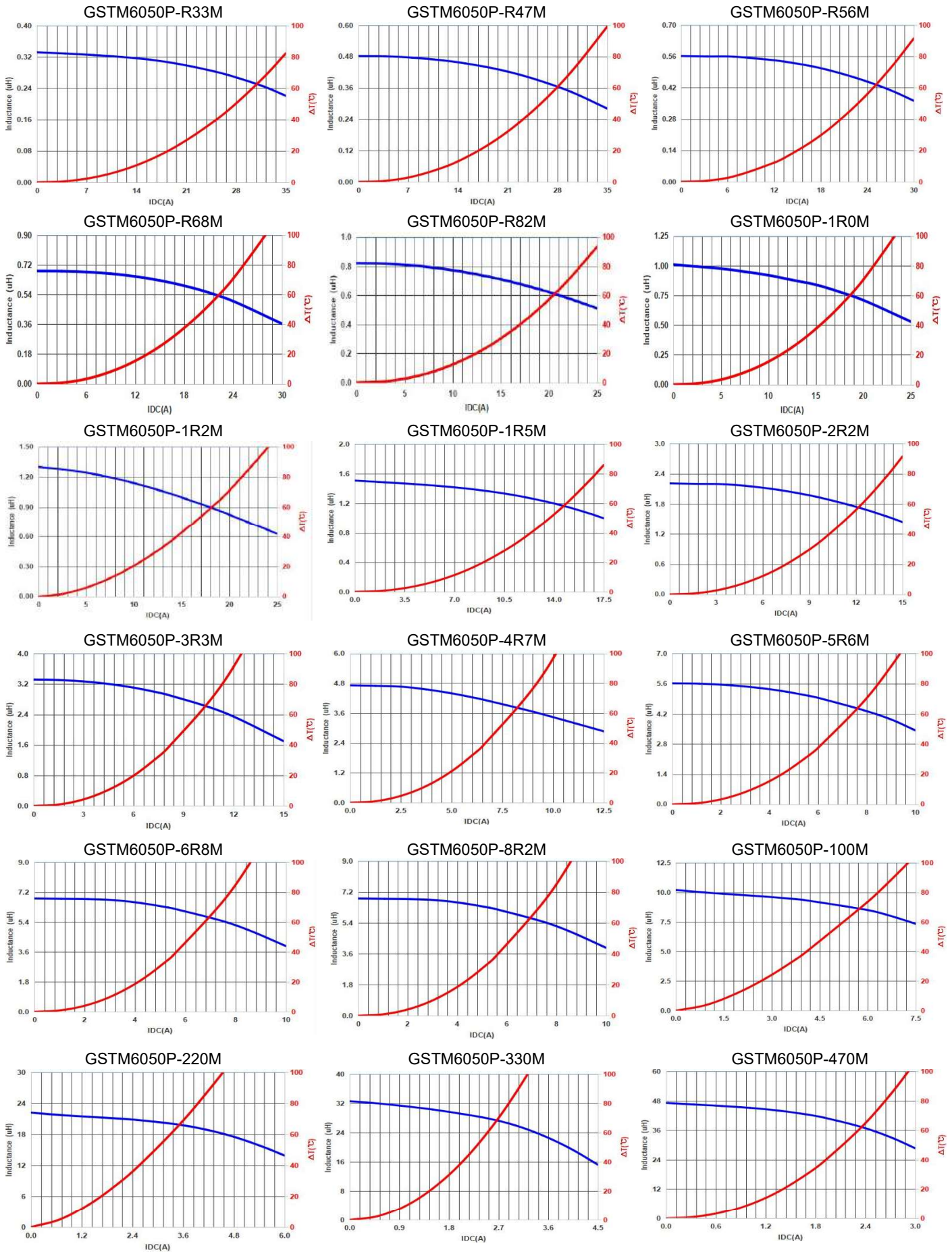
* **Irms** : Rated Current Loading when temperature rise approximately 40°C

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

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

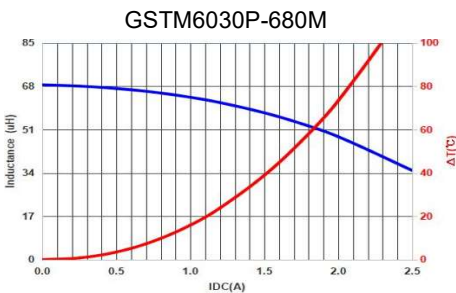
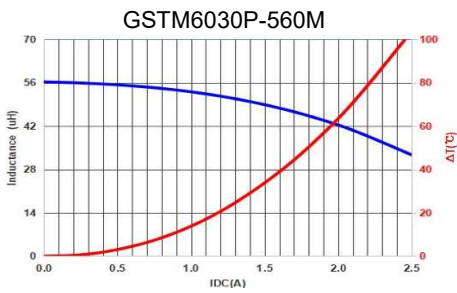
Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

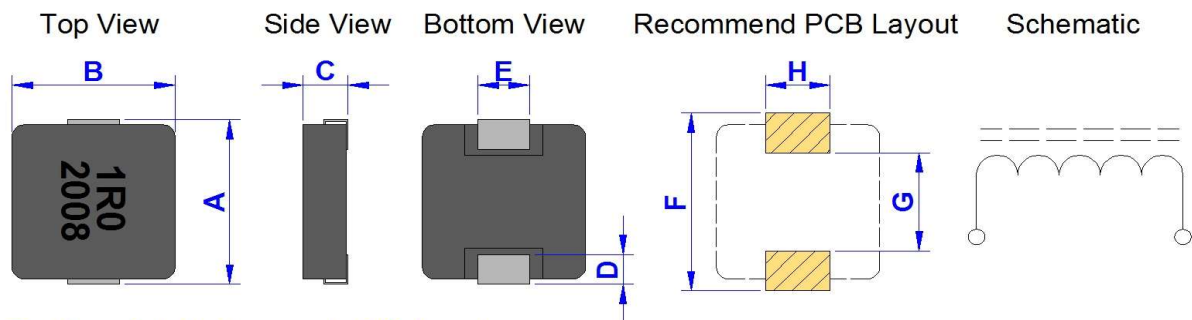
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM8038P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.4)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
8.80	8.40	3.80	1.60	5.00	9.60	4.50	5.50

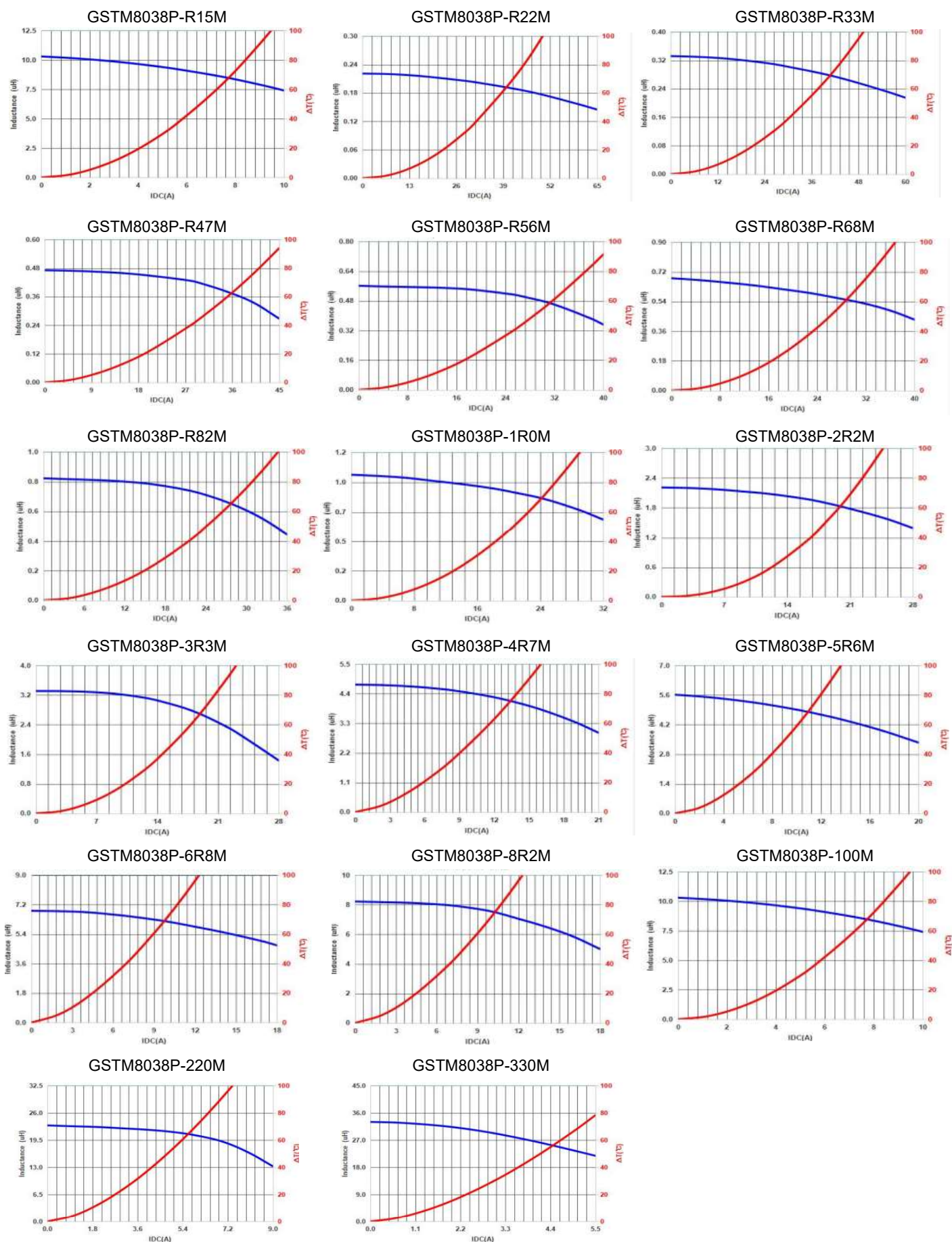
Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM8038P-R15□	0.15	M	1.15	1.30	70.00	32.00
GSTM8038P-R22□	0.22	M	1.60	1.76	60.00	31.00
GSTM8038P-R33□	0.33	M	2.00	2.20	55.00	30.00
GSTM8038P-R47□	0.47	M	2.60	2.86	40.00	28.00
GSTM8038P-R56□	0.56	M	2.70	2.97	38.00	25.00
GSTM8038P-R68□	0.68	M	3.10	3.41	36.00	23.00
GSTM8038P-R82□	0.82	M	3.70	4.10	32.00	21.00
GSTM8038P-1R0□	1.00	M	4.50	4.95	29.00	18.00
GSTM8038P-1R5□	1.50	M	6.60	7.30	27.00	17.00
GSTM8038P-2R2□	2.20	M	10.80	11.90	25.00	16.00
GSTM8038P-3R3□	3.30	M	15.00	16.50	22.00	14.00
GSTM8038P-4R7□	4.70	M	26.80	29.50	19.00	8.50
GSTM8038P-5R6□	5.60	M	30.00	35.00	17.00	7.50
GSTM8038P-6R8□	6.80	M	40.00	46.00	16.50	6.50
GSTM8038P-8R2□	8.20	M	44.00	51.00	16.00	6.00
GSTM8038P-100□	10.00	M	53.00	61.00	10.00	5.60
GSTM8038P-220□	22.00	M	100.00	120.00	8.00	3.90
GSTM8038P-330□	33.00	M	110.00	132.00	5.00	3.50

- * Test Condition: @100KHz , 1.0Vrms , 25℃ Ambient
- * Inductance Tolerance : M = +/-20% , N = +/-30%
- * Irms : Rated Current Loading when temperature rise approximately 40℃
- * Isat : Saturated Current measured at the point of L drop approximately 30%
- * The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

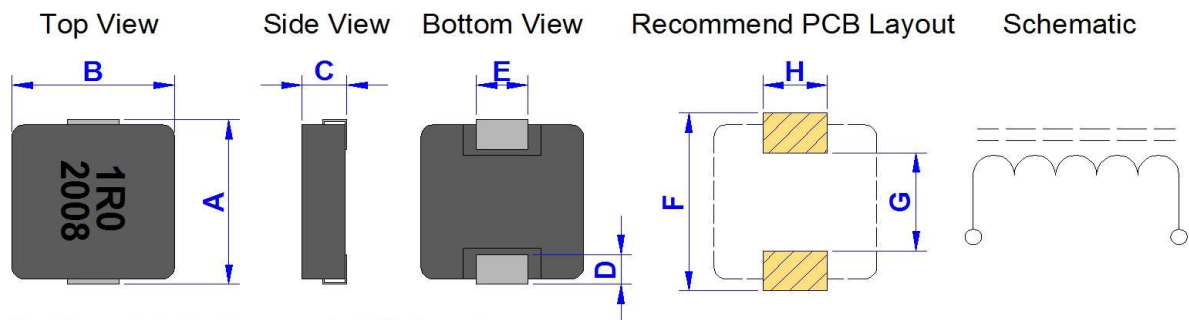
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM1040P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.5)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
11.00	10.00	3.80	2.30	3.00	13.60	5.40	3.50

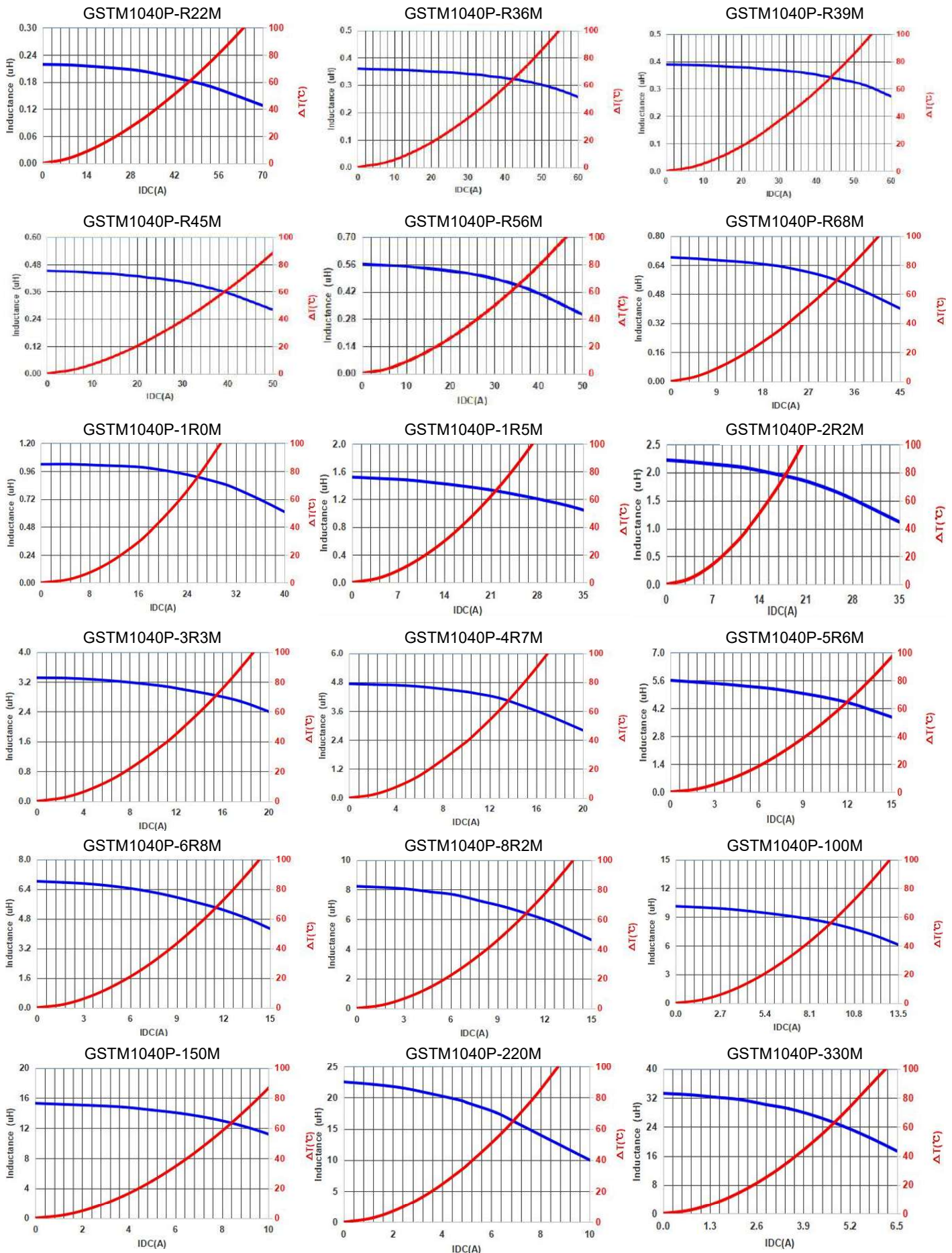
Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM1040P-R22□	0.22	M	0.80	1.00	60.0	35.00
GSTM1040P-R36□	0.36	M	1.05	1.20	60.0	31.00
GSTM1040P-R39□	0.39	M	1.10	1.30	60.0	30.00
GSTM1040P-R45□	0.45	M	1.30	1.50	45.0	29.00
GSTM1040P-R56□	0.56	M	1.60	1.80	40.0	25.00
GSTM1040P-R68□	0.68	M	2.40	2.70	39.0	22.00
GSTM1040P-1R0□	1.00	M	3.00	3.30	36.0	18.00
GSTM1040P-1R5□	1.50	M	4.00	4.60	33.0	16.00
GSTM1040P-2R2□	2.20	M	6.50	7.00	27.0	12.00
GSTM1040P-3R3□	3.30	M	10.80	11.80	20.0	11.00
GSTM1040P-4R7□	4.70	M	15.00	15.50	17.0	10.00
GSTM1040P-5R6□	5.60	M	17.00	19.30	14.0	9.00
GSTM1040P-6R8□	6.80	M	17.50	23.30	13.5	8.50
GSTM1040P-8R2□	8.20	M	20.00	22.50	12.5	8.00
GSTM1040P-100□	10.00	M	27.00	30.00	12.0	7.50
GSTM1040P-150□	15.00	M	40.00	45.00	10.0	6.25
GSTM1040P-220□	22.00	M	64.00	74.00	7.0	5.00
GSTM1040P-330□	33.00	M	92.00	112.00	5.0	3.50
GSTM1040P-470□	47.00	M	145.00	167.00	4.5	3.00
GSTM1040P-680□	68.00	M	205.00	240.00	3.0	2.00
GSTM1040P-820□	82.00	M	265.00	320.00	2.5	1.50

* Test Condition: @100KHz , 1.0Vrms , 25℃ Ambient
 * Inductance Tolerance : M = +/-20% , N = +/-30%
 * Irms : Rated Current Loading when temperature rise approximately 40℃
 * Isat : Saturated Current measured at the point of L drop approximately 30%
 * The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

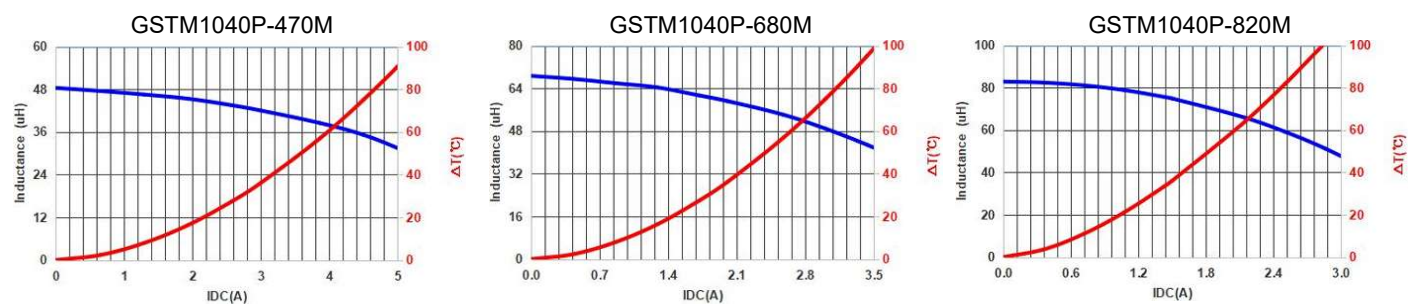
Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series : GSTM	Brand : GOTREND
File Version : GSTM-SERIES	Editor : Yinghui Guo
Established Date : 2012.09.26	Description : High Current Inductor
Latest Edit Date : 2025.07.07	Product Type : ☒ Standard ☐ Customize

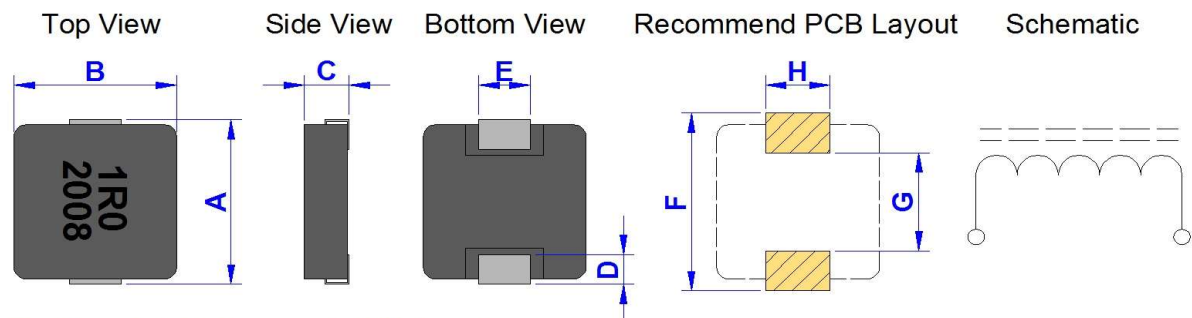
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM1050P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.5)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E	F(Ref.)	G(Ref.)	H(Ref.)
11.00	10.00	4.80	2.00	2.2 ~ 3.3	12.50	5.40	3.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM1050PS-R36□	0.36	M	0.82	0.92	52.00	34.00
GSTM1050PS-R47□	0.47	M	1.15	1.32	46.00	33.00
GSTM1050PS-R68□	0.68	M	1.60	1.90	35.00	28.00
GSTM1050PS-1R0□	1.00	M	2.60	3.00	33.00	25.00
GSTM1050PS-1R5□	1.50	M	3.40	3.80	21.00	23.00
GSTM1050PS-2R2□	2.20	M	5.10	5.60	20.00	19.00
GSTM1050PS-3R3□	3.30	M	8.10	9.10	17.50	17.00
GSTM1050PS-4R7□	4.70	M	9.30	10.50	16.00	15.00
GSTM1050PS-5R6□	5.60	M	12.80	14.40	15.00	13.00
GSTM1050PS-6R8□	6.80	M	15.00	17.30	14.00	12.00
GSTM1050PS-100□	10.00	M	18.90	21.80	13.00	7.60
GSTM1050PS-101□	100.00	M	242.00	290.00	2.80	2.20

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

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

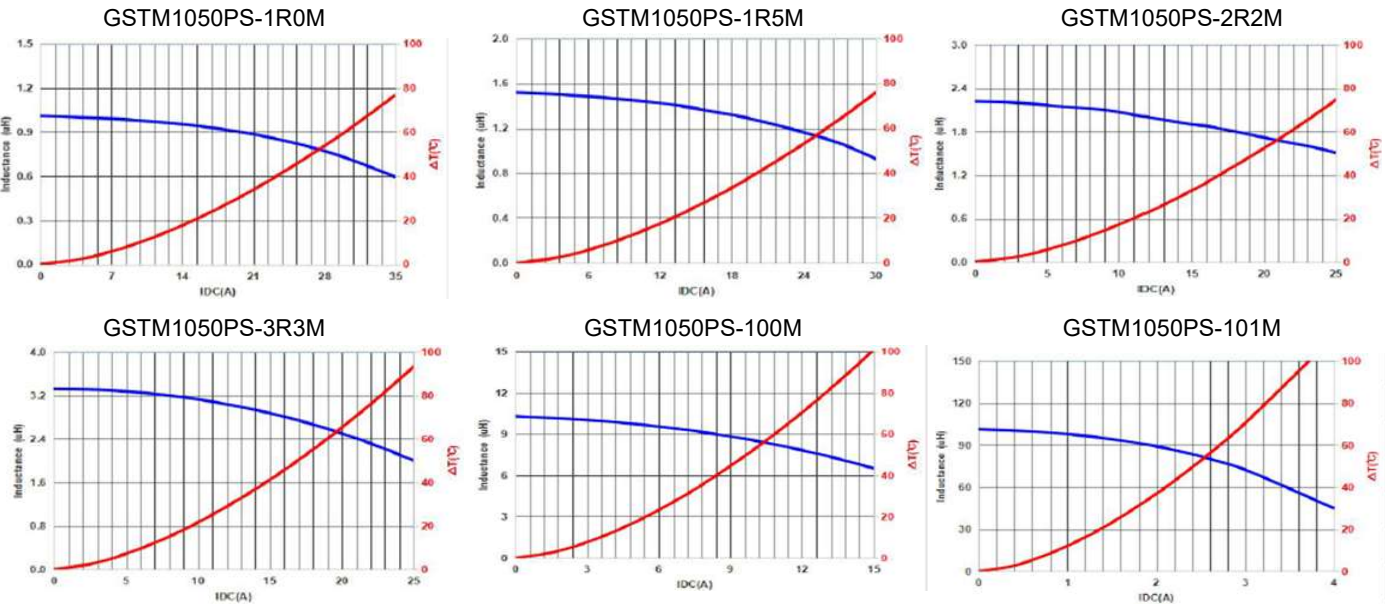
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

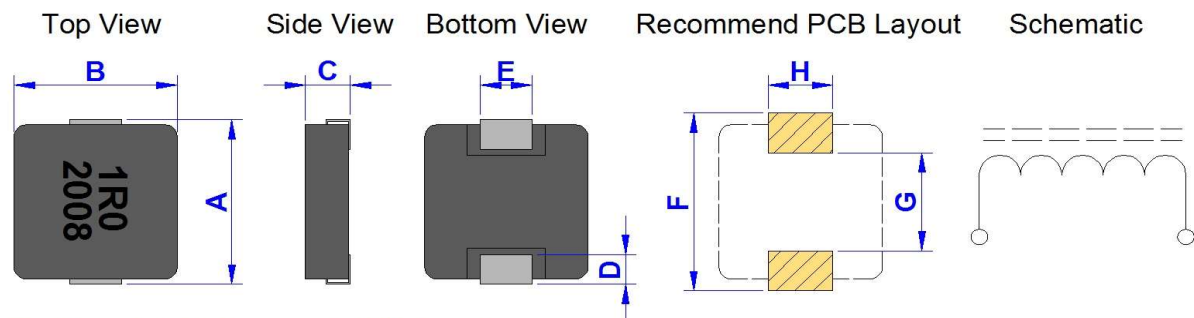
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM1238P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.5)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
13.50	12.50	3.60	2.30	4.70	14.20	8.00	5.00

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM1238P-1R0□	1.00	M	3.3	3.5	40.0	24.0
GSTM1238P-1R5□	1.50	M	5.1	5.5	35.0	19.0
GSTM1238P-1R8□	1.80	M	6.0	7.0	30.0	16.5
GSTM1238P-2R2□	2.20	M	7.2	8.0	29.0	16.0
GSTM1238P-3R3□	3.30	M	11.0	12.0	27.0	12.0
GSTM1238P-4R7□	4.70	M	14.3	15.0	24.0	10.0
GSTM1238P-5R6□	5.60	M	17.1	18.0	19.0	9.5
GSTM1238P-6R8□	6.80	M	19.8	22.0	18.0	9.0
GSTM1238P-8R2□	8.20	M	24.8	28.0	16.0	8.5
GSTM1238P-100□	10.00	M	30.4	34.0	14.0	7.0

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

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

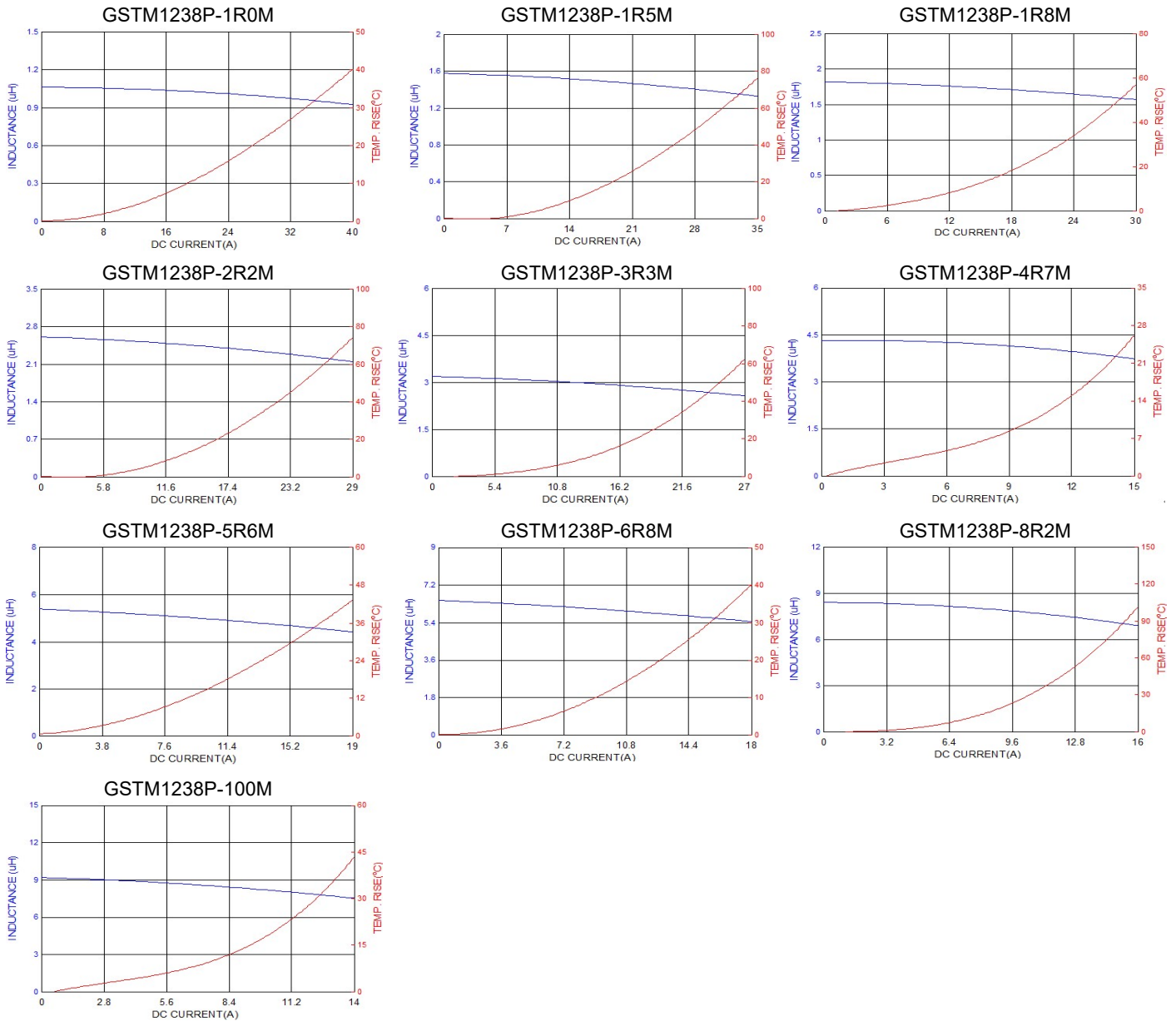
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

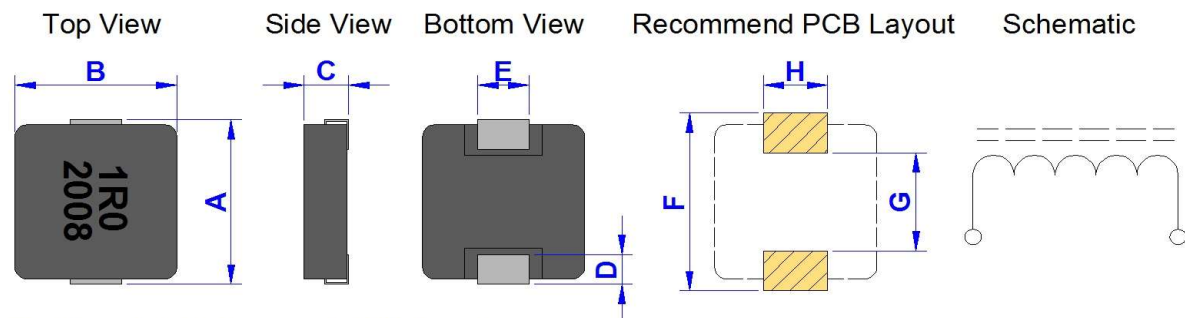
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM1250P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.5)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
13.50	12.50	4.80	2.30	4.70	14.20	8.00	5.00

Electrical Characteristics :

Part No.	Inductance (μ H)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM1250P-R33□	0.33	M	0.70	0.90	80.0	42.0
GSTM1250P-R47□	0.47	M	0.86	1.10	65.0	38.0
GSTM1250P-R56□	0.56	M	1.00	1.50	55.0	36.0
GSTM1250P-R68□	0.68	M	1.40	1.70	54.0	34.0
GSTM1250P-R82□	0.82	M	1.70	2.10	52.0	31.0
GSTM1250P-1R0□	1.00	M	1.85	2.50	50.0	29.0
GSTM1250P-1R2□	1.20	M	2.50	3.00	49.0	28.0
GSTM1250P-1R5□	1.50	M	2.80	3.30	48.0	27.0
GSTM1250P-1R8□	1.80	M	4.00	4.90	40.0	21.0
GSTM1250P-2R2□	2.20	M	4.20	5.50	32.0	20.0
GSTM1250P-3R3□	3.30	M	6.80	9.20	32.0	15.0
GSTM1250P-4R7□	4.70	M	11.40	15.00	27.0	12.0
GSTM1250P-5R6□	5.60	M	12.30	16.50	22.0	11.5
GSTM1250P-6R8□	6.80	M	14.50	18.50	21.0	11.0
GSTM1250P-8R2□	8.20	M	16.80	22.50	18.0	9.5
GSTM1250P-100□	10.00	M	21.40	25.50	16.0	9.0

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

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

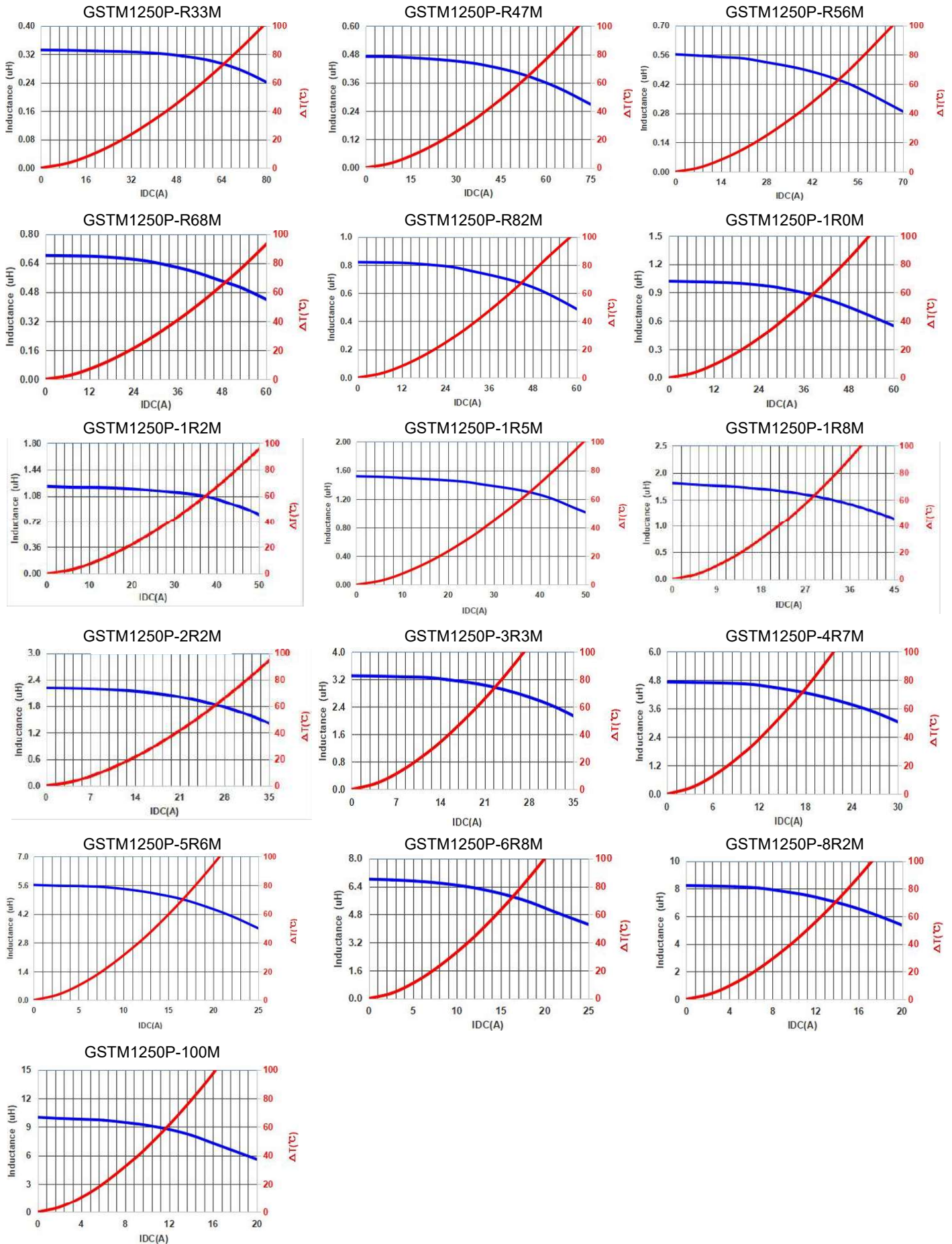
* Irms : Rated Current Loading when temperature rise approximately 40°C

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

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

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

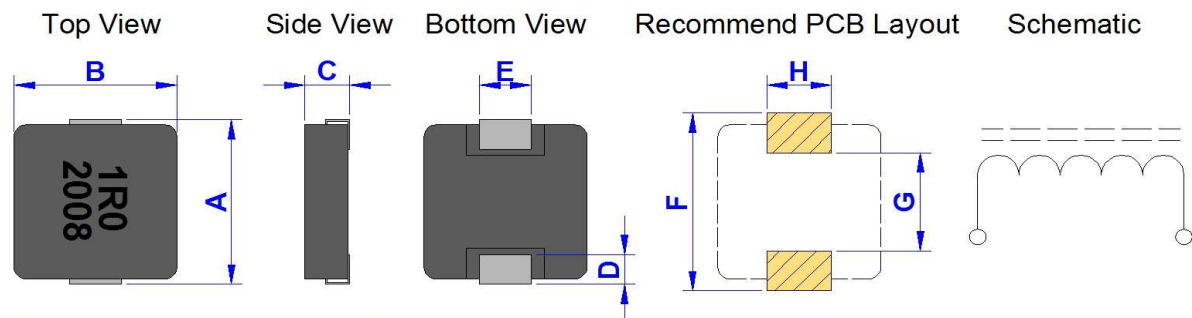
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM1260P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2020 = 20
 (2) Weekly serial number 01 ~ 52

A (+/-0.5)	B (+/-0.3)	C (+/-0.3)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
13.50	12.50	5.70	2.30	4.70	14.20	8.00	5.00

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM1260P-6R8□	6.8	M	12.0	13.8	25.0	15.0
GSTM1260P-100□	10.0	M	18.0	20.7	21.0	11.0
GSTM1260P-120□	12.0	M	20.0	23.0	18.0	9.5
GSTM1260P-150□	15.0	M	25.0	29.0	16.0	9.0
GSTM1260P-180□	18.0	M	30.0	35.0	15.0	8.5
GSTM1260P-220□	22.0	M	34.0	39.5	14.0	8.0
GSTM1260P-270□	27.0	M	49.0	56.0	13.0	7.0
GSTM1260P-330□	33.0	M	65.0	75.0	12.0	6.0
GSTM1260P-470□	47.0	M	80.0	90.0	11.0	5.5
GSTM1260P-560□	56.0	M	101.0	118.0	10.0	5.3
GSTM1260P-680□	68.0	M	120.0	140.0	9.0	5.0
GSTM1260P-820□	82.0	M	138.0	161.0	8.5	4.5
GSTM1260P-101□	100.0	M	180.0	200.0	8.0	4.0
GSTM1260P-121□	120.0	M	210.0	235.0	7.0	3.5
GSTM1260P-151□	150.0	M	300.0	350.0	6.0	3.0
GSTM1260P-221□	220.0	M	480.0	550.0	4.0	2.0

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

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

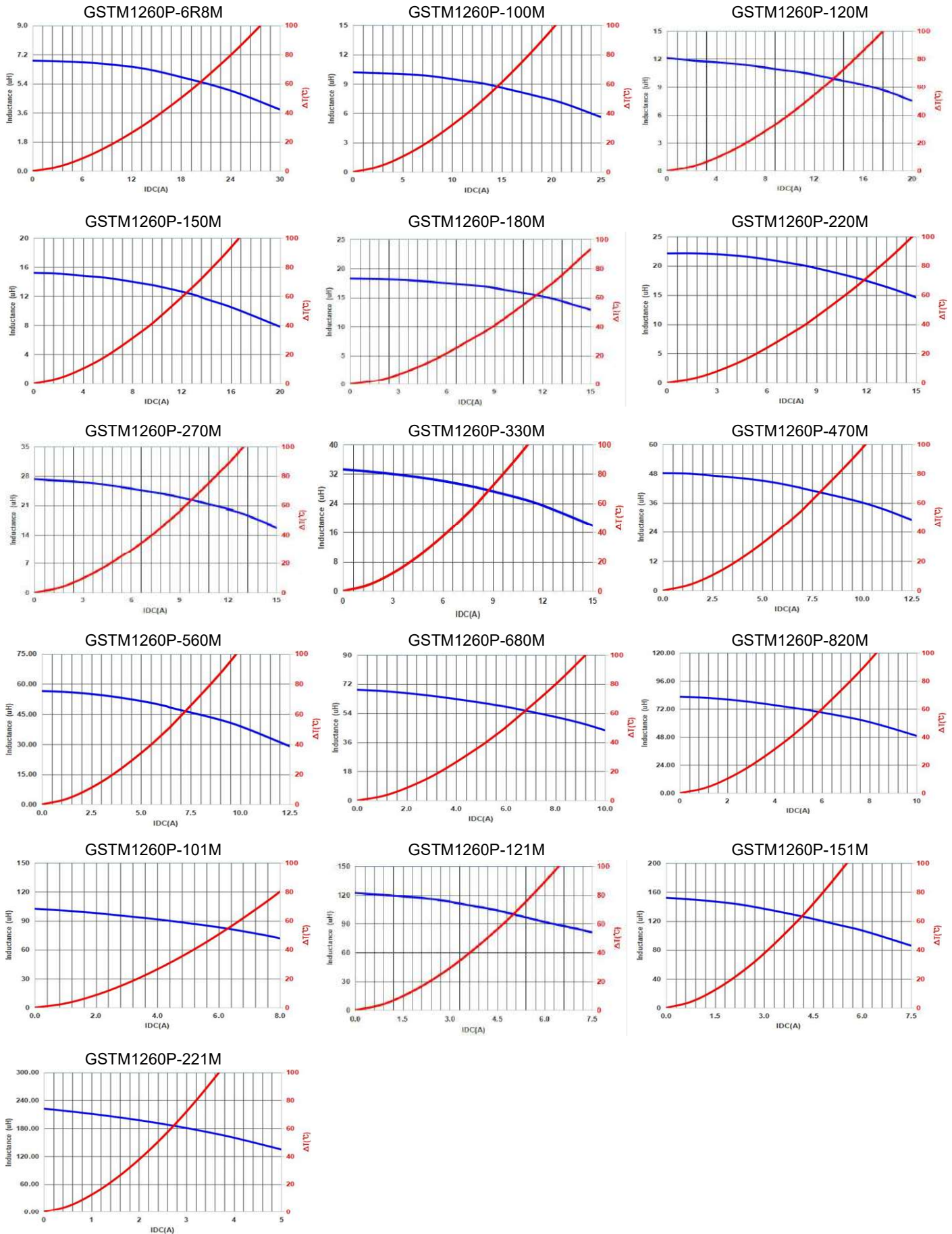
* Irms : Rated Current Loading when temperature rise approximately 40℃

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

* The part temperature (ambient + temp rise) : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

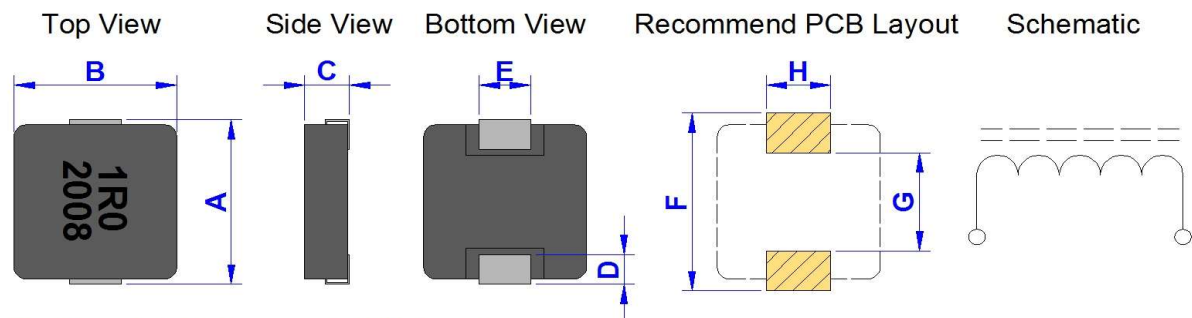
Typical Performance Curves:



Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date :	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

GSTM1265P-SERIES

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2020 = 20
(2) Weekly serial number 01 ~ 52

A (+/-0.5)	B (+/-0.3)	C (+/-0.3)	D (+/-0.3)	E (+/-0.3)	F(Ref.)	G(Ref.)	H(Ref.)
13.50	12.50	6.20	2.30	4.70	14.20	8.00	5.00

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm) Typ.	DCR (m Ohm) Max.	Isat (Amp) Typ.	Irms (Amp) Typ.
GSTM1265P-R40□	0.40	M	0.70	1.00	64.0	44.0
GSTM1265P-R47□	0.47	M	0.90	1.20	63.0	41.0
GSTM1265P-R50□	0.50	M	0.92	1.25	60.0	40.0
GSTM1265P-R82□	0.82	M	1.50	1.90	50.0	33.0
GSTM1265P-1R0□	1.00	M	1.70	2.30	48.0	30.0
GSTM1265P-1R5□	1.50	M	2.50	3.00	45.0	27.0
GSTM1265P-2R2□	2.20	M	3.80	4.20	37.0	22.0
GSTM1265P-3R3□	3.30	M	5.70	6.80	30.0	18.0
GSTM1265P-4R7□	4.70	M	7.00	8.40	28.0	13.5
GSTM1265P-6R8□	6.80	M	9.50	11.50	18.0	11.5
GSTM1265P-8R2□	8.20	M	12.00	15.50	16.0	10.5
GSTM1265P-100□	10.00	M	13.20	16.50	15.5	10.0
GSTM1265P-120□	12.00	M	16.00	20.00	14.0	9.5
GSTM1265P-130□	13.00	M	21.00	24.00	13.0	9.0
GSTM1265P-150□	15.00	M	23.20	28.00	12.5	9.0
GSTM1265P-220□	22.00	M	32.50	37.00	12.0	9.0
GSTM1265P-250□	25.00	M	40.00	47.00	11.5	8.5
GSTM1265P-330□	33.00	M	48.00	58.00	11.0	8.0
GSTM1265P-470□	47.00	M	76.00	90.00	9.5	6.5
GSTM1265P-680□	68.00	M	110.00	130.00	7.8	4.8
GSTM1265P-820□	82.00	M	135.00	155.00	6.5	4.5
GSTM1265P-101□	100.00	M	145.00	165.00	5.5	4.2
GSTM1265P-151□	150.00	M	220.00	250.00	5.0	3.2
GSTM1265P-221□	220.00	M	340.00	408.00	3.5	2.1
GSTM1265P-331□	330.00	M	650.00	780.00	3.0	1.8

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

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

* Irms : Rated Current Loading when temperature rise approximately 40℃

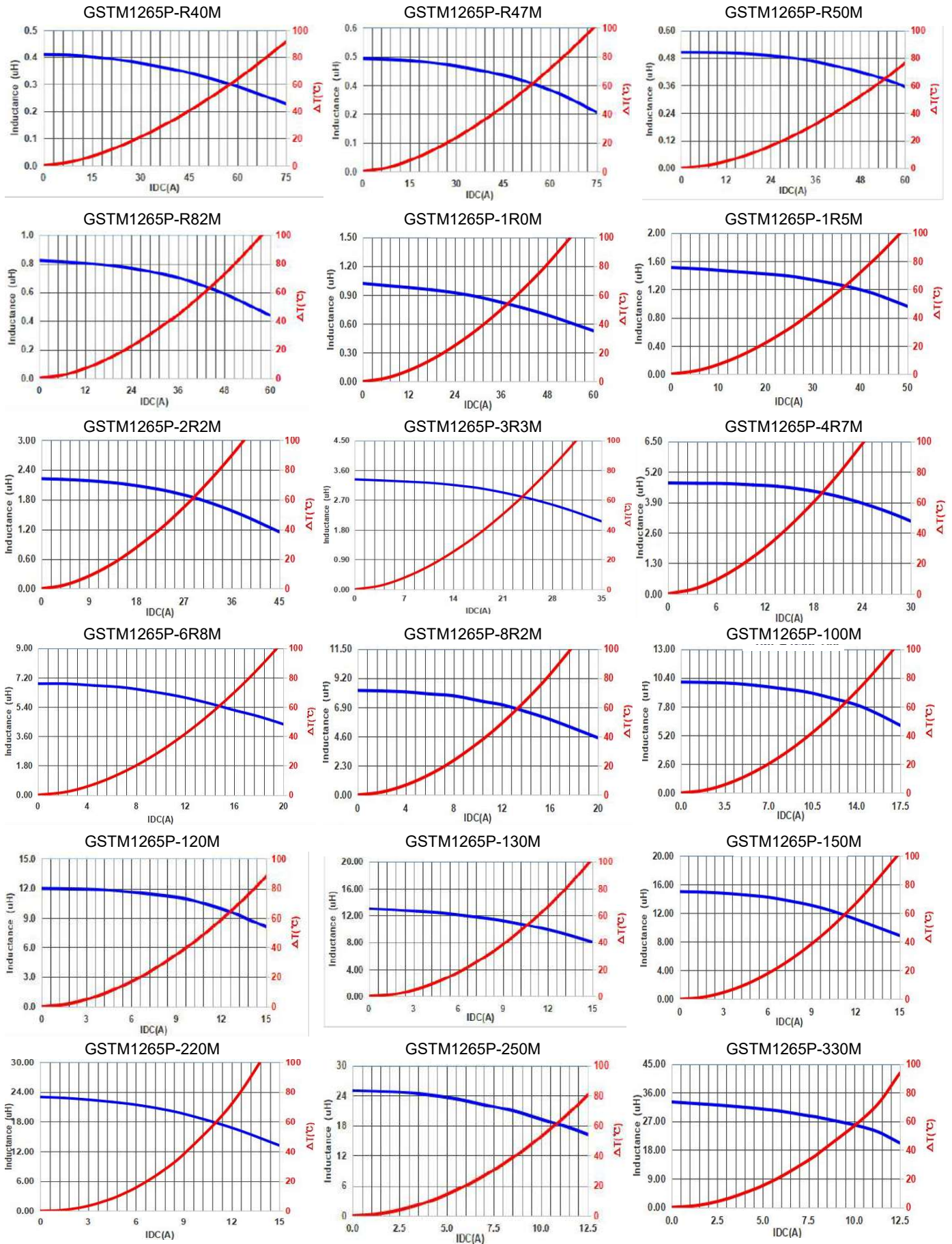
* **Isat** : Saturated Current measured at the point of L drop approximately 30%

* **The part temperature (ambient + temp rise)** : Should not exceed 125℃ under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.



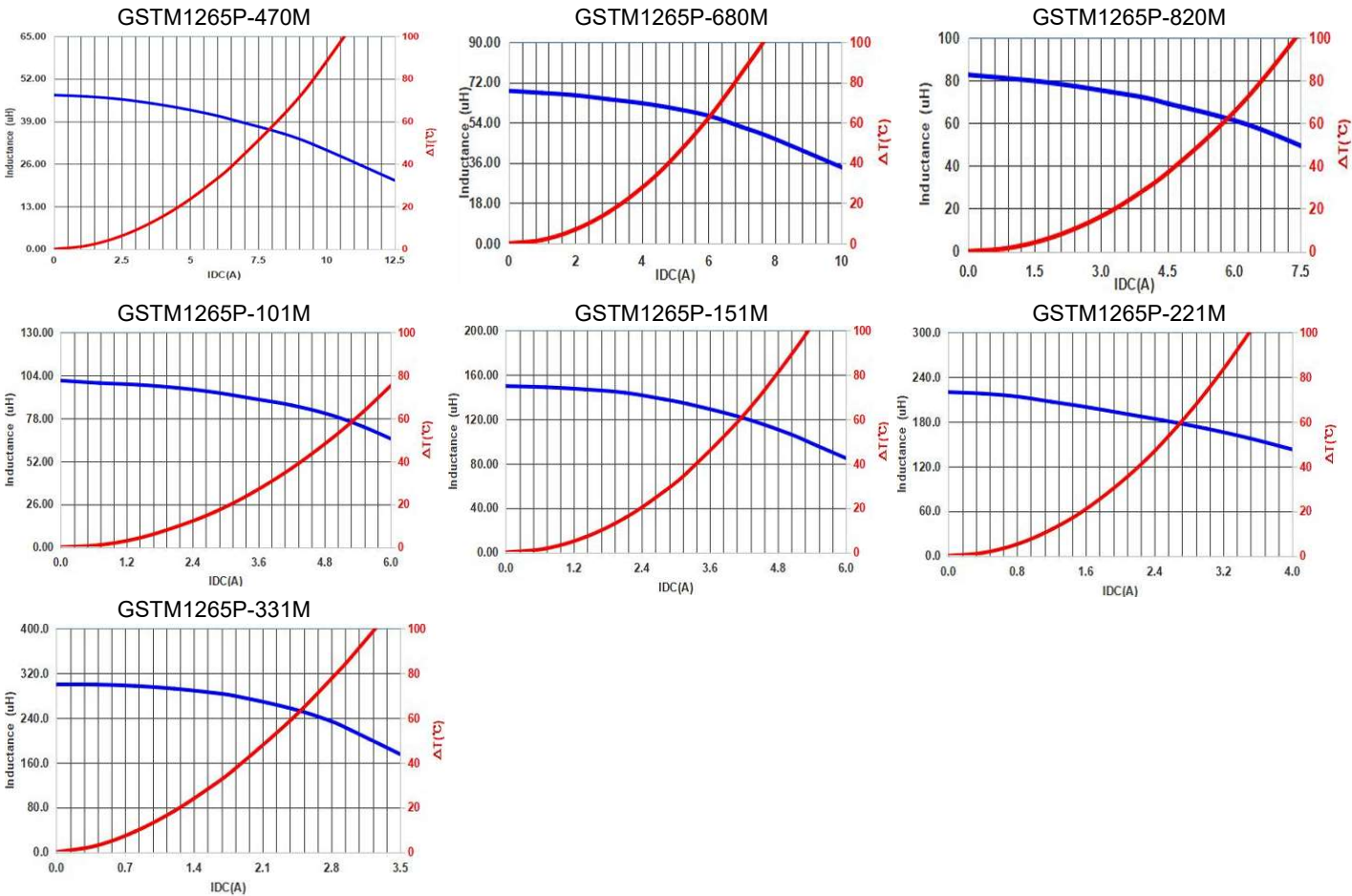
Product Series :	GSTM	Brand :	GOTREND
File Version :	GSTM-SERIES	Editor :	Yinghui Guo
Established Date	2012.09.26	Description :	High Current Inductor
Latest Edit Date :	2025.07.07	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



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Typical Performance Curves:



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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 :

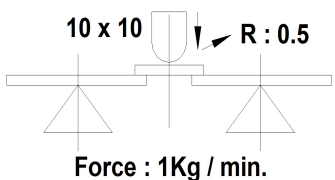
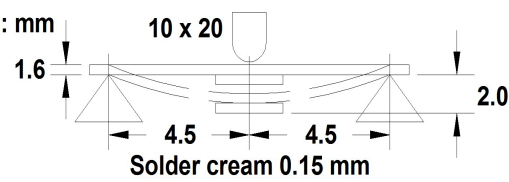
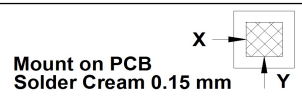
If this product is potted in some compound, coating material of magnet wire might be occasionally damaged. Please ask us if you intend to pot this product.

(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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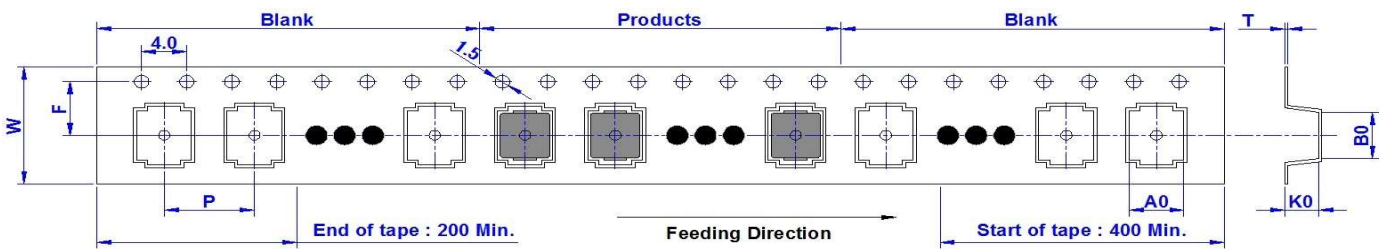
Reliability :

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

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Packaging Information :

Tape Dimension Schematic Diagram (mm) :

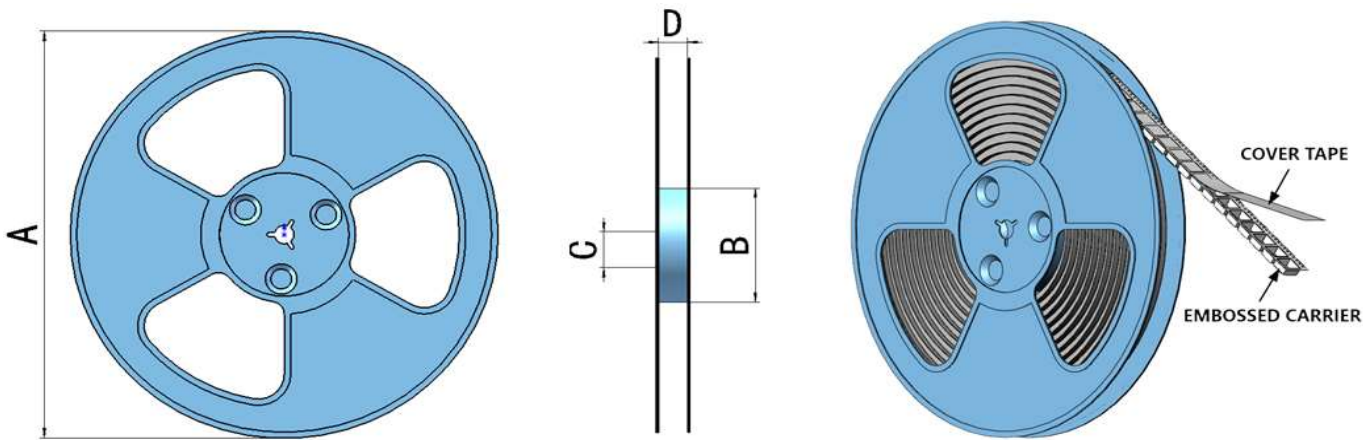


SIZE/mm	W	P	A0	B0	K0	T	F
3012	12.0	8.0	3.50	3.80	1.50	0.35	5.50
3020	12.0	8.0	3.50	3.80	2.30	0.35	5.50
4012	12.0	8.0	4.40	5.00	1.50	0.35	5.50
4020	12.0	8.0	4.40	5.00	2.30	0.35	5.50
5012	12.0	8.0	5.50	6.20	1.50	0.35	5.50
5015	12.0	8.0	5.50	6.20	1.80	0.35	5.50
5018	12.0	8.0	5.50	6.20	2.10	0.35	5.50
5020	12.0	8.0	5.50	6.30	2.30	0.35	5.50
5030	12.0	8.0	5.50	6.20	3.30	0.35	5.50
6012	16.0	12.0	7.00	7.70	1.50	0.35	7.50
6015	16.0	12.0	7.00	7.70	1.80	0.35	7.50
6018	16.0	12.0	7.00	7.70	2.10	0.35	7.50
6020	16.0	12.0	7.00	7.70	2.30	0.35	7.50
6024	16.0	12.0	7.00	7.70	2.70	0.35	7.50
6030	16.0	12.0	7.00	7.70	3.30	0.35	7.50
6050	16.0	12.0	7.00	7.70	5.30	0.35	7.50
8038	24.0	16.0	8.9	10.1	4.5	0.35	11.5
1040	24.0	16.0	10.40	11.60	4.50	0.35	11.50
1050	24.0	16.0	10.40	11.60	5.30	0.35	11.50
1238	24.0	16.0	12.90	14.10	4.10	0.35	11.50
1250	24.0	16.0	12.90	14.10	5.50	0.35	11.50
1260	24.0	16.0	12.90	14.10	6.50	0.35	11.50
1265	24.0	16.0	12.90	14.10	7.00	0.35	11.50

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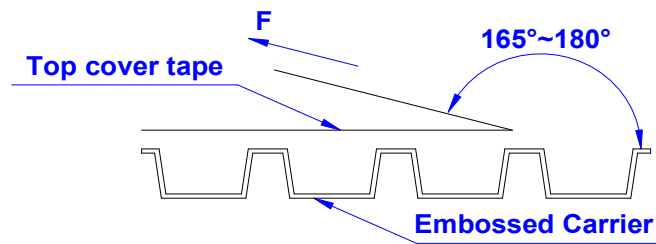
Packaging Information :

Reel Dimension Schematic Diagram (mm) :



SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
3012	13" × 12 mm	330	100	13.0	12.5	4,000 PCS
3020	13" × 12 mm	330	100	13.0	12.5	3,000 PCS
4012	13" × 12 mm	330	100	13.0	12.5	4,000 PCS
4020	13" × 12 mm	330	100	13.0	12.5	3,000 PCS
5012	13" × 12 mm	330	100	13.0	12.5	4,000 PCS
5015	13" × 12 mm	330	100	13.0	12.5	3,500 PCS
5018	13" × 12 mm	330	100	13.0	12.5	3,000 PCS
5020	13" × 12 mm	330	100	13.0	12.5	3,000 PCS
5030	13" × 12 mm	330	100	13.0	12.5	2,000 PCS
6012	13" × 16 mm	330	100	13.0	16.5	3,000 PCS
6015	13" × 16 mm	330	100	13.0	16.5	2,000 PCS
6018	13" × 16 mm	330	100	13.0	16.5	2,000 PCS
6020	13" × 16 mm	330	100	13.0	16.5	1,500 PCS
6024	13" × 16 mm	330	100	13.0	16.5	1,500 PCS
6030	13" × 16 mm	330	100	13.0	16.5	1,000 PCS
6050	13" × 16 mm	330	100	13.0	16.5	800 PCS
8038	13" × 24 mm	330	100	13.0	24.4	800 PCS
1040	13" × 24 mm	330	100	13.0	24.5	500 PCS
1050	13" × 24 mm	330	100	13.0	24.5	500 PCS
1238	13" × 24 mm	330	100	13.0	24.5	500 PCS
1250	13" × 24 mm	330	100	13.0	24.5	500 PCS
1260	13" × 24 mm	330	100	13.0	24.5	500 PCS
1265	13" × 24 mm	330	100	13.0	24.5	500 PCS

Tearing Off Force Schematic Diagram :



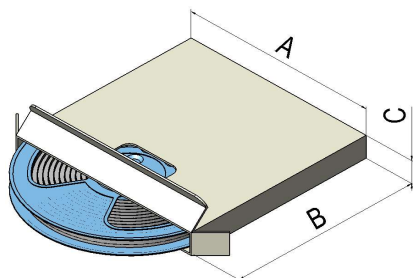
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

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

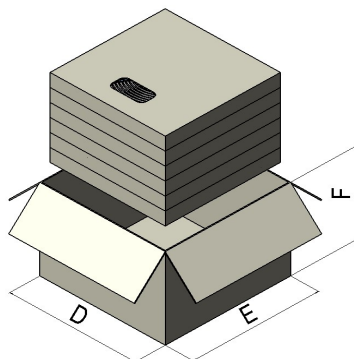
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Packaging Information :

Box Package Schematic Diagram :



13" Small Box



13" Large Box

SIZE/mm	Reels size	A	B	C	Large Box size	D	E	F	Reels in Small Box (QTY)	Small Box in Large Box(QTY)
3012	13"	335	335	40	13"	350	350	220	2(4,000)	5(20,000)
3020	13"	335	335	40	13"	350	350	220	2(3,000)	5(15,000)
4012	13"	335	335	40	13"	350	350	220	2(4,000)	5(20,000)
4020	13"	335	335	40	13"	350	350	220	2(3,000)	5(15,000)
5012	13"	335	335	40	13"	350	350	220	2(4,000)	5(20,000)
5015	13"	335	335	40	13"	350	350	220	2(3,500)	5(17,500)
5018	13"	335	335	40	13"	350	350	220	2(3,000)	5(15,000)
5020	13"	335	335	40	13"	350	350	220	2(3,000)	5(15,000)
5030	13"	335	335	40	13"	350	350	220	1(2,000)	5(10,000)
6012	13"	335	335	40	13"	350	350	220	1(3,000)	5(15,000)
6015	13"	335	335	40	13"	350	350	220	1(2,000)	5(10,000)
6018	13"	335	335	40	13"	350	350	220	1(2,000)	5(10,000)
6020	13"	335	335	40	13"	350	350	220	1(1,500)	5(7,500)
6024	13"	335	335	40	13"	350	350	220	1(1,500)	5(7,500)
6030	13"	335	335	40	13"	350	350	220	1(1,000)	5(5,000)
6050	13"	335	335	40	13"	350	350	220	1(800)	5(4,000)
8038	13"	335	335	40	13"	350	350	220	1(800)	5(4,000)
1040	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1050	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1238	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1250	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1260	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1265	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)