

Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R2	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

REMINDERS

- ◆ Product information in this catalog is subject to change without notice, and is for reference only. Therefore, please contact GOTREND Technology to check for the latest information before practical application or usage of the products.
- ◆ This catalog contains only typical specifications, please contact GOTREND Technology for further details if you can not find special components or information you need in this catalogue. Please also approve our product specifications or transact the approval sheet for product specifications before ordering.
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- ◆ Please read Attention and CAUTION note (for storage, operating, rating, soldering, mounting and handling) in this catalog to ensure product proper usage.
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- ◆ Information and data provided in the brochure can and do vary in different applications, and actual performance may vary over time.
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- ◆ Any reproduction or extraction of the contents in this catalog is prohibited without prior permission from GOTREND Technology.
- ◆ Products listed in this catalog are intended for general electronic device usage under normal operation and use condition including telecommunication equipment, home appliances, sports equipment AV equipment, industrial machine, office equipment etc. Please take note that our products are not designed, intended or authorized for use in below mentioned applications unless explicitly agreed in writing between the parties to avoid product failure that could result in situation where personal injury or death could occur.

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

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

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



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



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Features & Application :

- * High performance (Isat) realized by metal dust core.
- * Low loss realized with low DCR
- * Capable of corresponsing high frequency
- * 100% lead (Pb) free meet RoHS standard
- * DC / DC converter for CPU in Notebook PC



(Picture for reference only)

Part No. Example :

PN	:	GSFT	201610	P	-	R22	<input type="checkbox"/>	-	AE
-----		-----	-----	---		-----	----		-----
ID	:	1	2	3		4	5		6
1	:	GOTREND Series : GSTL							
2	:	Type Size Code :201610 = 2.0x 1.6 x 0.8 mm							
3	:	P = Pb free < 1000 ppm							
4	:	[L] Value : Inductance R22 = 0.22 uH							
5	:	[N] Tolerance : M = +/-20% , N = +/-30%							
6	:	[AE] : Reliability comply with AEC-Q200 standard type.							

Basic Information :

Made in	Taiwan / China
Pin Foot	SMD
Shielding	Yes
J-STD-020	MSL Level 1
RoHS	Compliant
REACH	Compliant
Halogen	Free
Automotive	AEC Q200

Operating & Storage Condition :



- * Operating Temp -40 ~ +125 °C (Including self - temperature rise)
- * Storage Temp 1. -10 ~ +40 °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 :

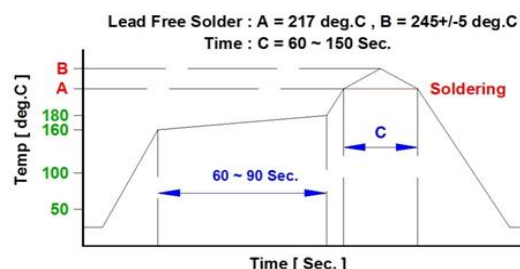
- * Keep out of Splashing water or salt water
- * Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- Vibrations or shocks which exceed the specified condition
- Dew condense
- Layout near the edge of PCB
- Over flexure after SMT mounting & PCBA

- * 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 = 60 ~ 150 Sec.

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



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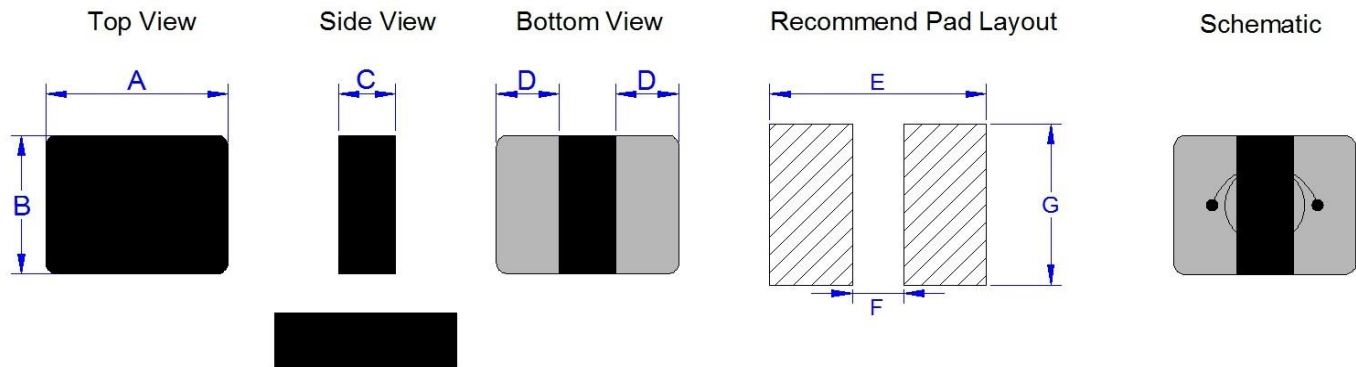
SMD Power Inductor - GSFT Series Type

Image	Part Name	L (mm) Typ.	W (mm) Typ.	H (mm) Typ.	Inductance Range (uH) M=+/-20% , N=+/-30%		DCR (m Ohm) Max.	Isat (A) Max.	Irms (A) Max.	Page
	GSFT141265PH	1.4	1.2	0.65	0.47	0.47	35.0 ~ 42.0	3.1 ~ 3.4	2.7 ~ 3.0	5
	GSFT141208PH	1.4	1.2	0.8	0.33	0.47	23.0 ~ 35.0	4.2 ~ 5.3	3.3 ~ 4.0	6
	GSFT160808PH	1.6	0.8	0.8	0.22	1.0	33.0 ~ 200.0	2.6 ~ 5.5	1.8 ~ 3.4	7 ~ 8
	GSFT201208PH	2.0	1.2	0.8	0.47	2.2	34.0 ~ 185.0	2.1 ~ 5.0	1.5 ~ 3.1	9 ~ 10
	GSFT201210PH	2.0	1.2	1.0	0.1	2.2	8.0 ~ 150.0	2.4 ~ 8.5	1.7 ~ 7.5	11 ~ 13
	GSFT201608PH	2.0	1.6	0.8	0.24	2.2	14.0 ~ 140.0	2.4 ~ 6.0	2.0 ~ 6.5	14 ~ 15
	GSFT201610PH	2.0	1.6	1.0	0.1	4.7	8.0 ~ 220.0	1.8 ~ 9.0	1.4 ~ 8.5	16 ~ 18
	GSFT201610P	2.0	1.6	1.0	0.22	2.2	10.5 ~ 150.0	2.45 ~ 8.0	2.0 ~ 7.0	19 ~ 21
	GSFT201612P	2.0	1.6	1.0	0.22	2.2	10.0 ~ 126.0	2.5 ~ 8.0	2.1 ~ 7.0	22 ~ 23
	GSFT252010PH	2.5	2.0	1.0	0.33	10.0	13.0 ~ 520.0	1.4 ~ 7.6	1.1 ~ 6.6	24 ~ 26
	GSFT252010P	2.5	2.0	1.0	0.22	3.3	12.0 ~ 156.0	1.8 ~ 7.7	1.7 ~ 7.2	27 ~ 28
	GSFT252012PH	2.5	2.0	1.2	0.1	10.0	4.0 ~ 400.0	1.45 ~ 12.0	1.05 ~ 12.0	29 ~ 31
	GSFT252012P	2.5	2.0	1.2	0.15	4.7	8.0 ~ 204.0	2.5 ~ 11.0	1.8 ~ 9.0	32 ~ 34
	GSFT3012PL	3.1	3.2	1.0	0.68	0.68	14.5 ~ 16.0	7.0 ~ 7.7	6.8 ~ 7.5	35
	GSFT322510P	3.2	2.5	1.0	0.33	4.7	15.0 ~ 172.0	1.9 ~ 8.0	1.7 ~ 7.0	36 ~ 37
	GSFT322512P	3.2	2.5	1.2	0.15	4.7	6.5 ~ 146.0	2.4 ~ 11.0	1.9 ~ 10.1	38 ~ 40
	GSFT322512PH	3.2	2.5	1.2	0.22	4.7	7.4 ~ 135.0	2.5 ~ 9.3	2.0 ~ 9.5	41 ~ 42
	GSFT322520P	3.2	2.5	2.0	0.33	4.7	8.0 ~ 98.0	2.9 ~ 11.0	2.4 ~ 8.5	43 ~ 44
	GSFT4012P	4.1	4.1	1.2	2.2	4.7	40.0 ~ 100.0	3.0 ~ 5.5	2.8 ~ 5.0	45 ~ 46
	GSFT4020PL	4.1	4.1	2.0	0.47	1.2	3.6 ~ 9.5	2.5 ~ 13.0	7.5 ~ 13.2	47 ~ 48
	GSFT4020PS	4.1	4.1	2.0	0.33	2.2	3.3 ~ 21.0	6.5 ~ 18.0	8.0 ~ 17.0	49 ~ 50
	GSFT4030PS	4.2	4.2	3.0	3.3	4.7	17.2 ~ 32.4	5.1 ~ 7.5	5.9 ~ 10.0	51
	GSFT5030PS	5.5	5.3	3.0	0.15	3.3	0.74 ~ 16.2	8.5 ~ 45.0	8.5 ~ 35.0	52 ~ 54

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GSFT141265PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
141265PH	1.4	1.2	0.55	0.45	1.7	0.3	1.5

Electrical Characteristics :

Part No.	Inductance(uH)	InductanceTolerance	DCR(m Ohm)		Isat(A)		Irms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT141265PH-R47M-AE	0.47	M	35.0	42.0	3.4	3.1	3.0	2.7

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

* **Inductance Tolerance :** M = +/-20%

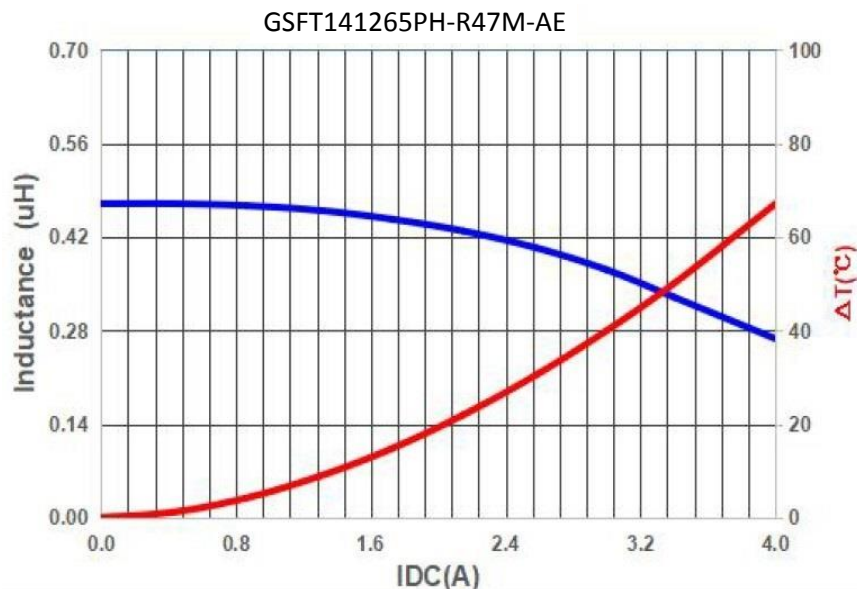
* **Irms :** Rated Current Loading when temperature rise approximately ΔT of 40°C

* **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.

* **Rated voltage 25V DC:** The application of voltage depends on many factors,Over voltage may cause components failure, high temperature,and burn-out,User needs to verify for appropriate usage.

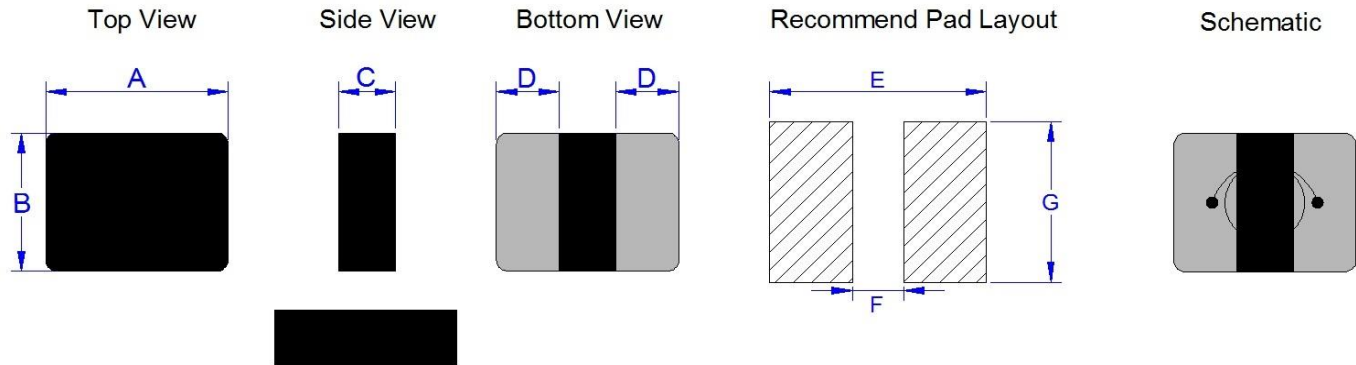
Typical Performance Curves :



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GSFT141208PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
141208PH	1.4	1.2	0.7	0.45	1.7	0.3	1.5

Electrical Characteristics :

Part No.	Inductance(uH)	InductanceTolerance	DCR(m Ohm)		Isat(A)		Irms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT141208PH-R33M-AE	0.33	M	23.0	28.0	5.3	5.0	4.0	3.5
GSFT141208PH-R47M-AE	0.47	M	29.0	35.0	4.6	4.2	3.8	3.3

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

* **Inductance Tolerance :** M = +/-20%

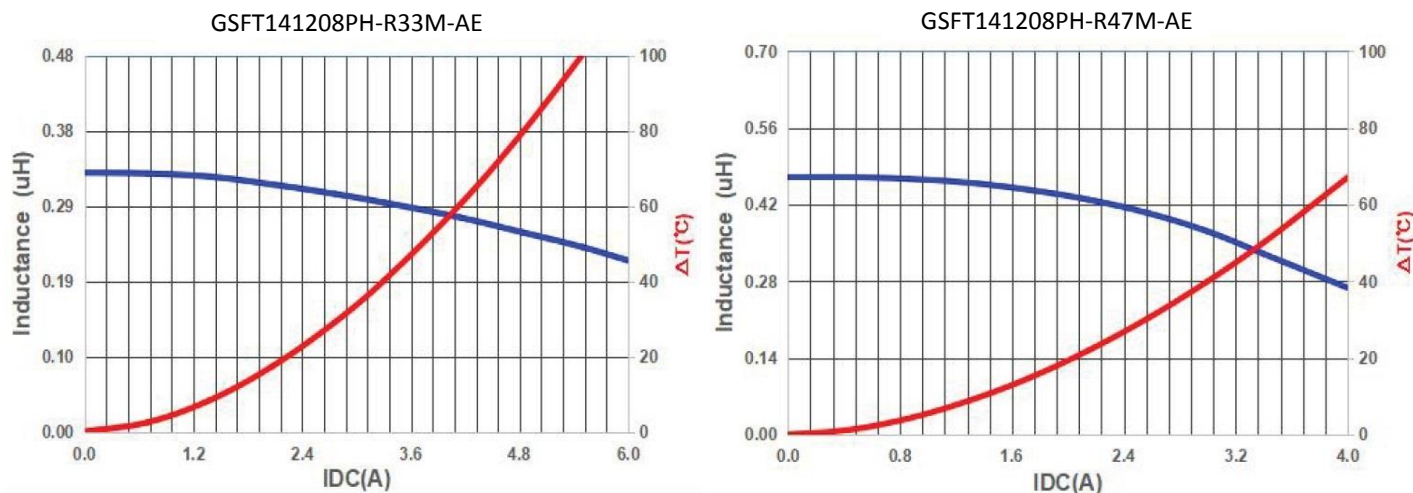
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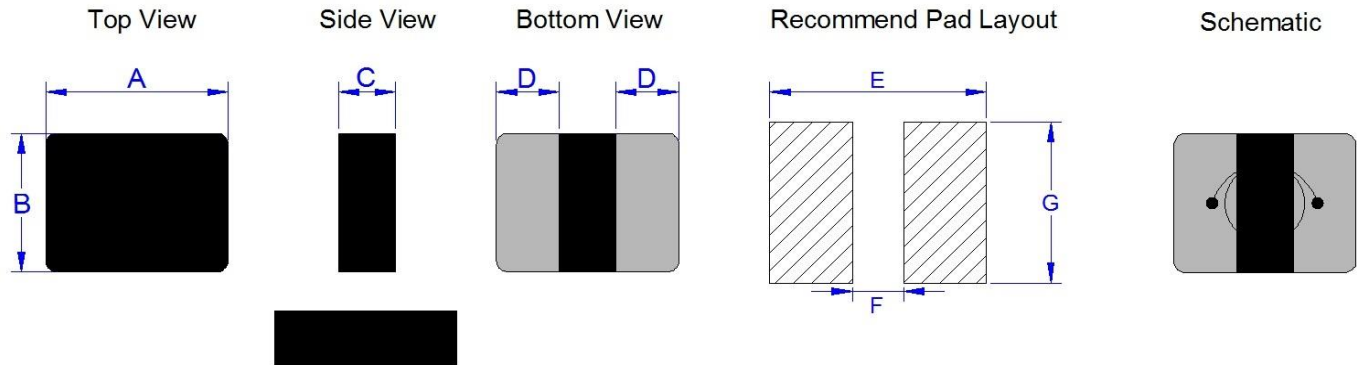
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GSFT160808PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
160808PH	1.6	0.8	0.7	0.55	1.9	0.4	1.1

Electrical Characteristics :

Part No.	Inductance(uH)	InductanceTolerance	DCR(m Ohm)		Isat(A)		Irms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT160808PH-R22M-AE	0.22	M	33.0	40.0	5.5	5.0	3.4	3.0
GSFT160808PH-R47M-AE	0.47	M	80.0	100.0	4.7	4.2	2.8	2.5
GSFT160808PH-R56M-AE	0.56	M	85.0	110.0	4.1	3.6	2.4	2.2
GSFT160808PH-R68M-AE	0.68	M	115.0	138.0	3.3	3.0	2.2	2.0
GSFT160808PH-1R0M-AE	1.00	M	180.0	200.0	3.0	2.6	2.1	1.8

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

* **Inductance Tolerance :** M = +/-20%

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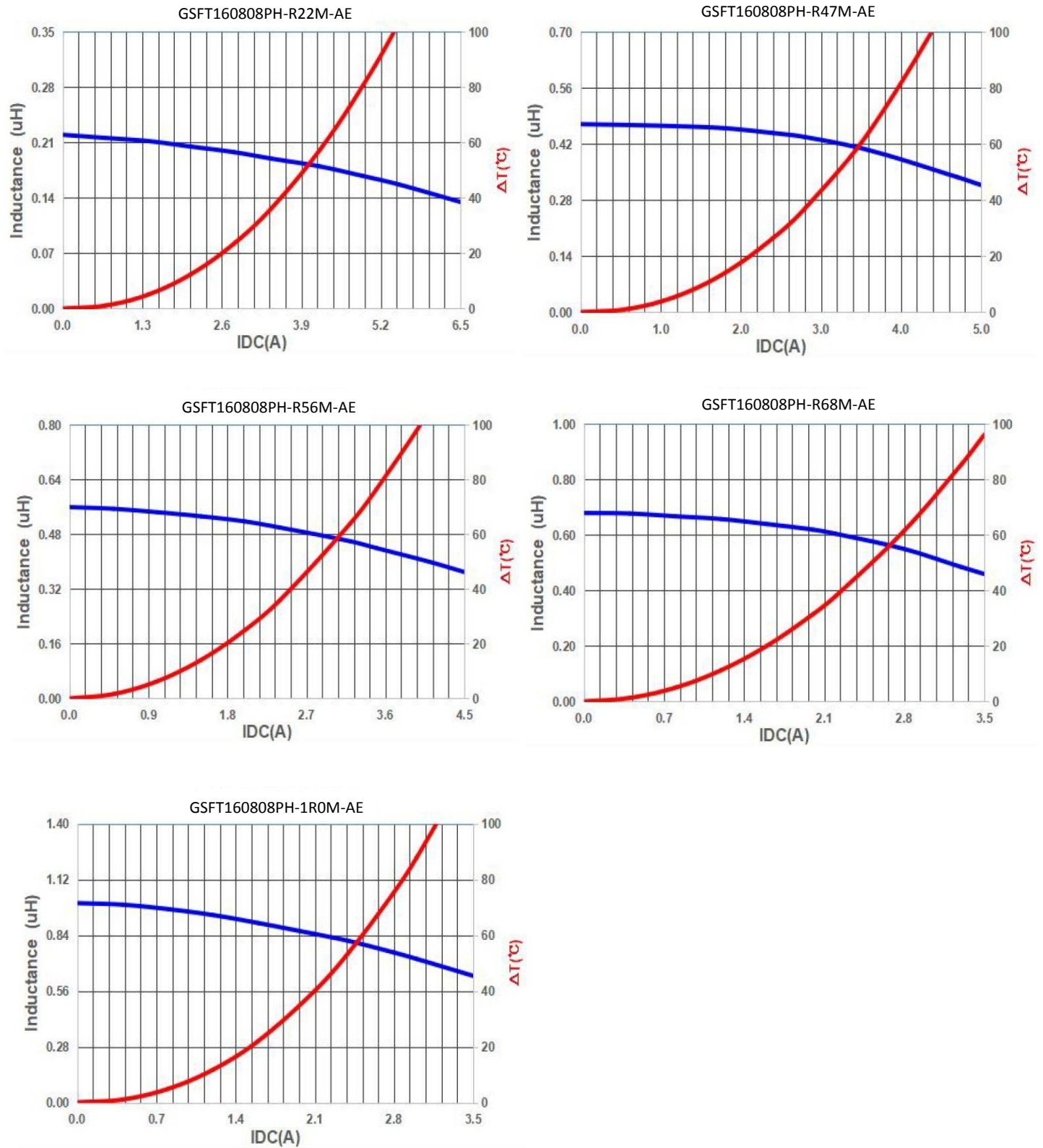
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GSFT160808PH-SERIES-AE

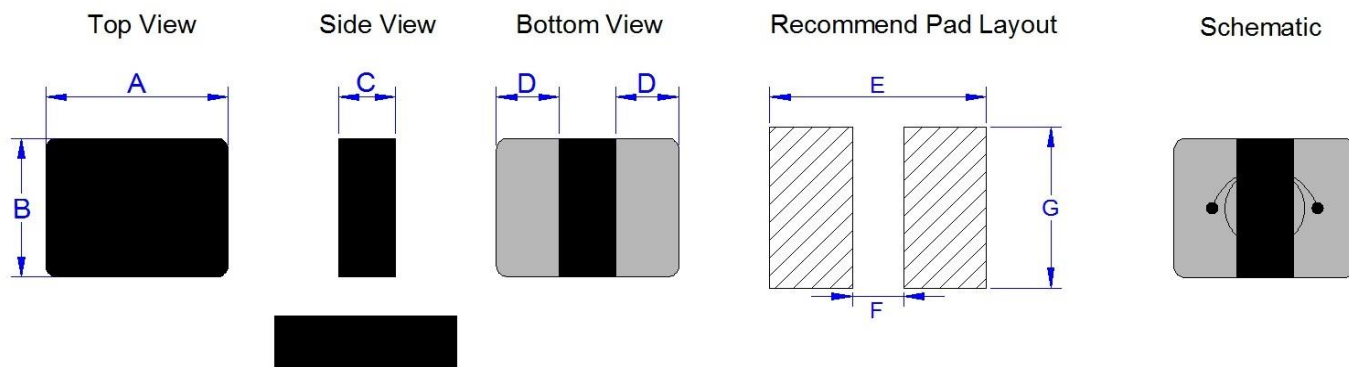
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GSFT201208PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.1)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
201208PH	2.0	1.2	0.7	0.7	2.5	0.5	1.5

Electrical Characteristics :

Part No.	Inductance(uH)	InductanceTolerance	DCR(m Ohm)		Isat(A)		Irms(A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT201208PH-R47M-AE	0.47	M	34.0	50.0	5.0	4.6	3.1	2.7
GSFT201208PH-1R0M-AE	1.00	M	55.0	70.0	3.2	2.8	2.8	2.4
GSFT201208PH-2R2M-AE	2.20	M	160.0	185.0	2.5	2.1	1.9	1.5

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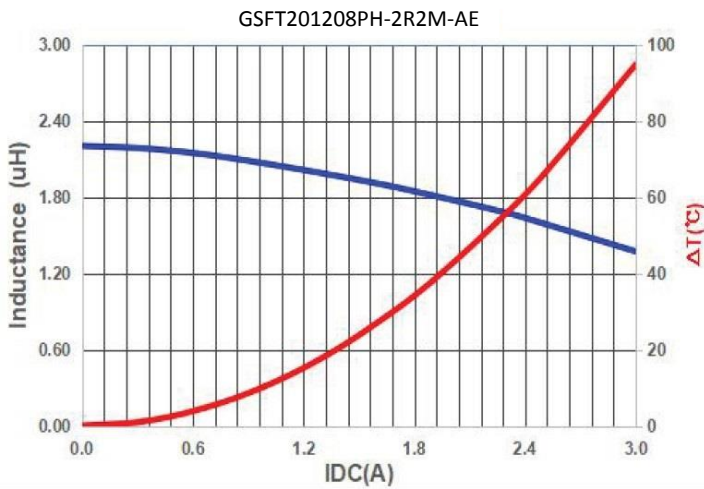
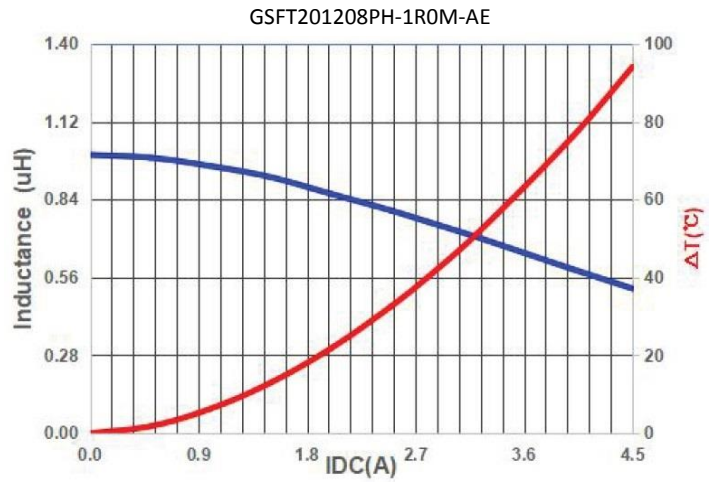
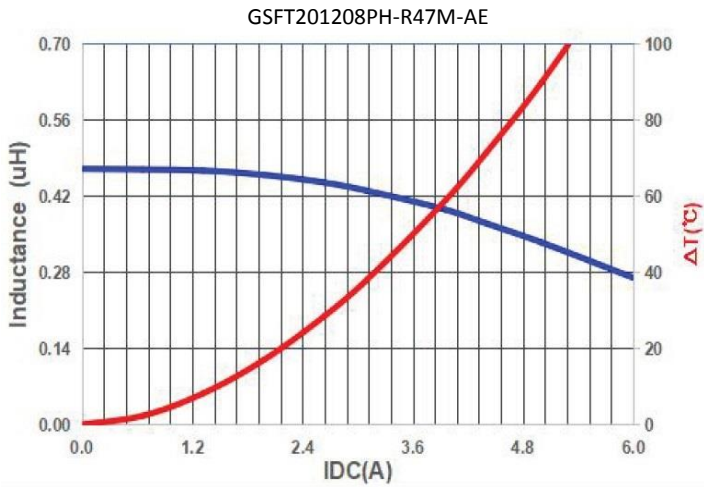
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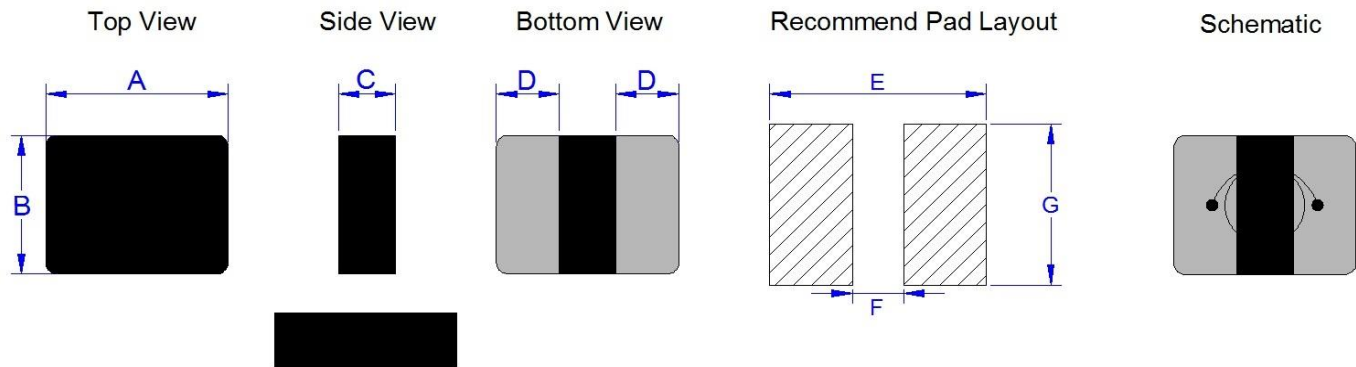
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GSFT201210PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
201210PH	2.0	1.2	0.8	0.7	2.5	0.5	1.5

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT201210PH-R10M-AE	0.10	M	8.0	13.0	8.5	8.0	7.5	7.0
GSFT201210PH-R22M-AE	0.22	M	16.0	22.0	7.3	6.8	7.1	6.5
GSFT201210PH-R24M-AE	0.24	M	17.0	23.0	7.2	6.7	7.0	6.4
GSFT201210PH-R33M-AE	0.33	M	24.0	32.0	6.5	6.0	5.5	5.0
GSFT201210PH-R47M-AE	0.47	M	29.0	36.0	5.5	5.0	4.7	4.3
GSFT201210PH-R68M-AE	0.68	M	37.0	43.0	5.0	4.5	4.3	4.0
GSFT201210PH-1R0M-AE	1.00	M	55.0	63.0	4.0	3.5	3.9	3.5
GSFT201210PH-1R5M-AE	1.50	M	76.0	85.0	3.2	2.7	3.1	2.6
GSFT201210PH-2R2M-AE	2.20	M	135.0	150.0	2.7	2.4	2.0	1.7

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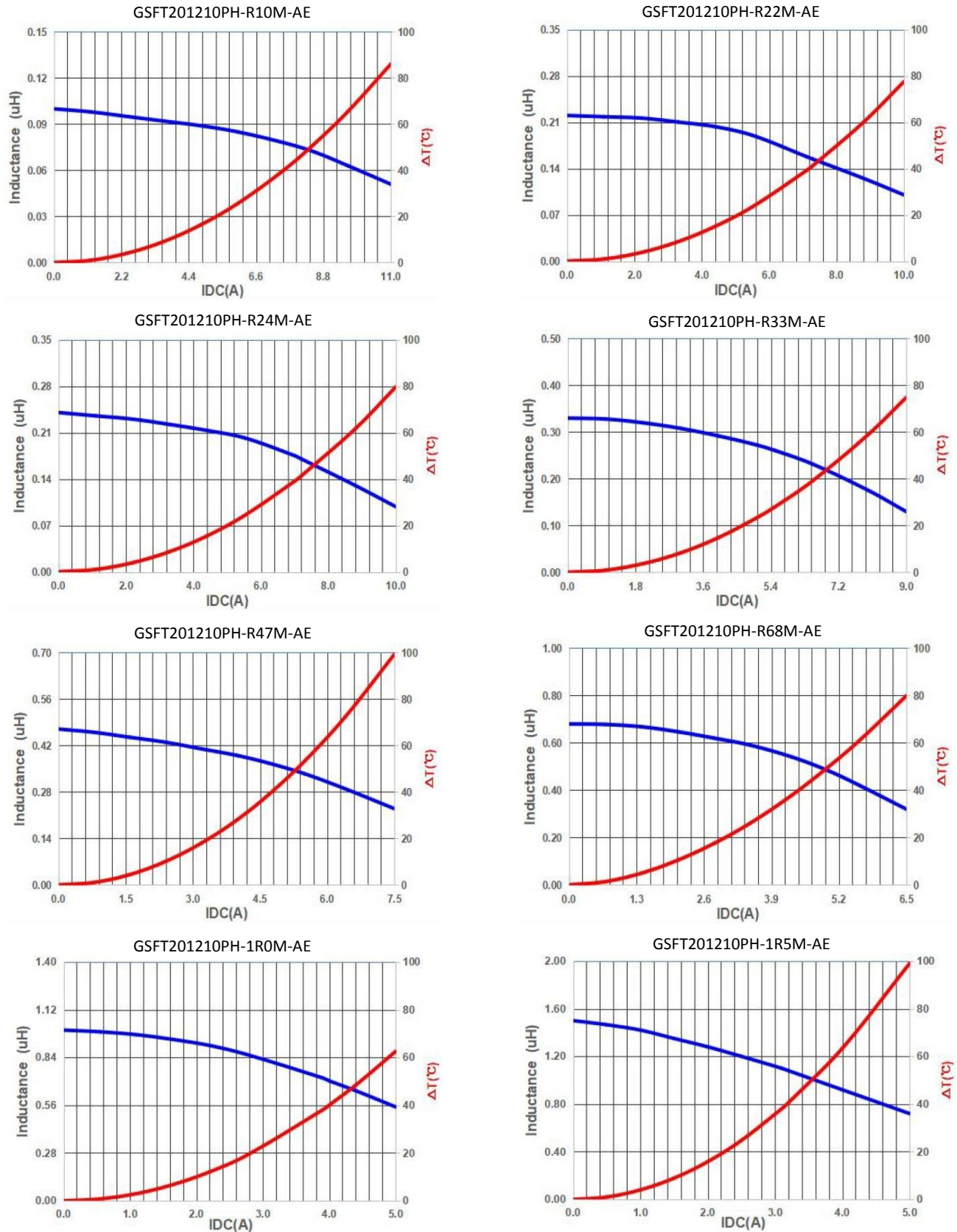
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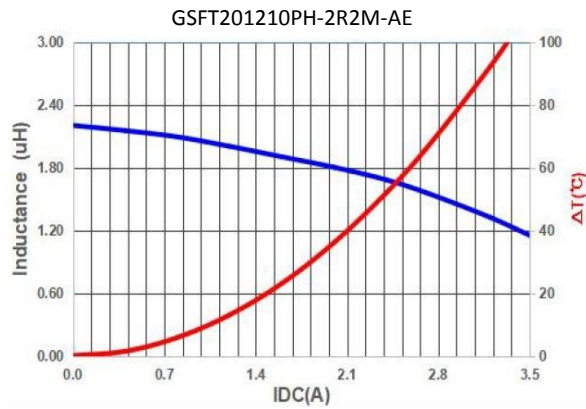
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Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201210PH-SERIES-AE

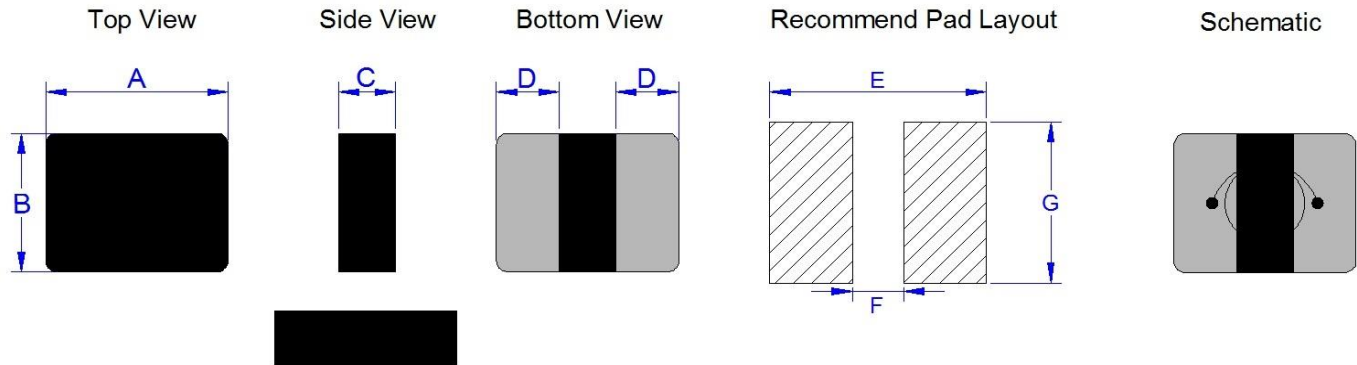
Typical Performance Curves :



Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R0	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201608PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
201608PH	2.0	1.6	0.7	0.7	2.5	0.5	1.9

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT201608PH-R24M-AE	0.24	M	14.0	20.0	6.0	5.5	6.5	5.8
GSFT201608PH-R33M-AE	0.33	M	18.0	24.0	5.8	5.3	5.5	4.8
GSFT201608PH-R47M-AE	0.47	M	27.0	31.0	5.5	5.0	4.9	4.5
GSFT201608PH-R68M-AE	0.68	M	39.0	44.0	5.1	4.6	3.8	3.6
GSFT201608PH-1R0M-AE	1.00	M	53.0	60.0	3.6	3.3	3.1	2.9
GSFT201608PH-1R5M-AE	1.50	M	73.0	85.0	3.3	3.0	2.9	2.7
GSFT201608PH-2R2M-AE	2.20	M	123.0	140.0	2.7	2.4	2.2	2.0

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

* **Inductance Tolerance :** M = +/-20%

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

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

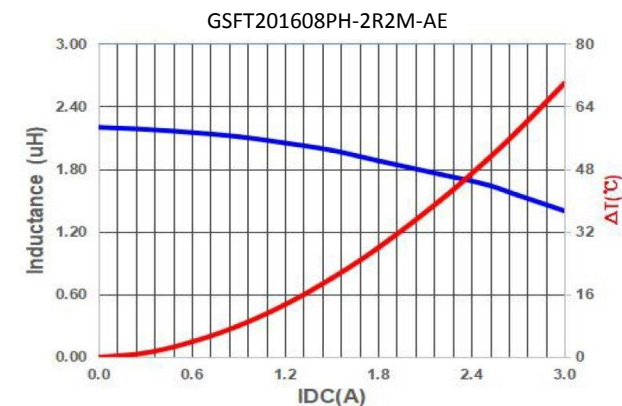
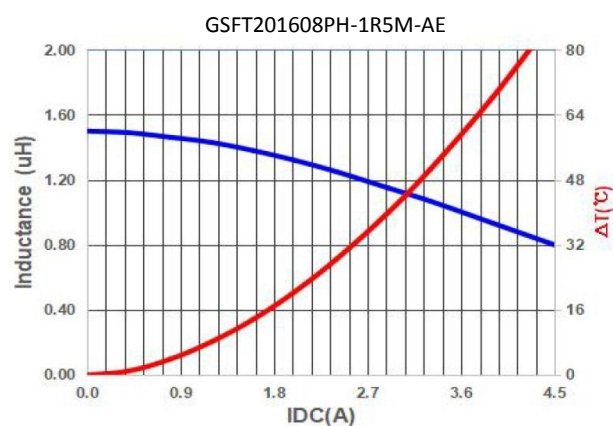
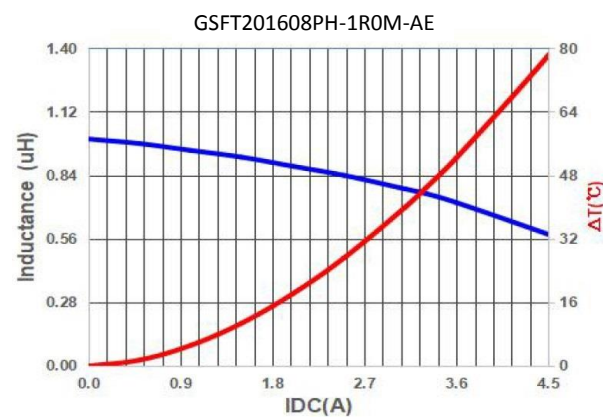
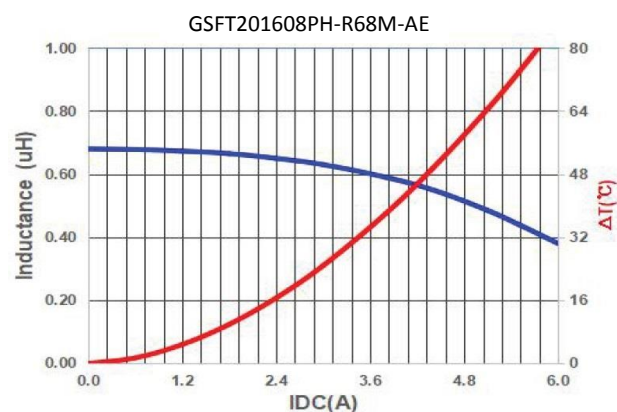
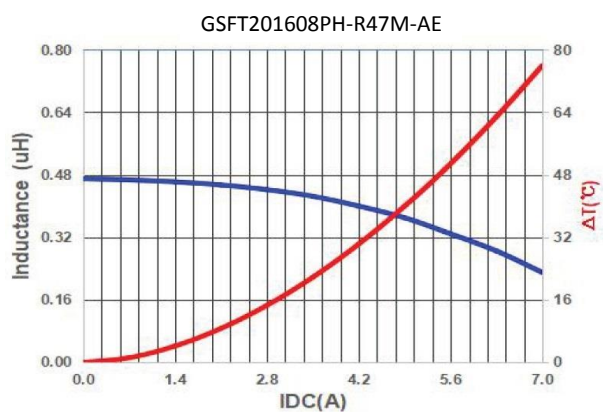
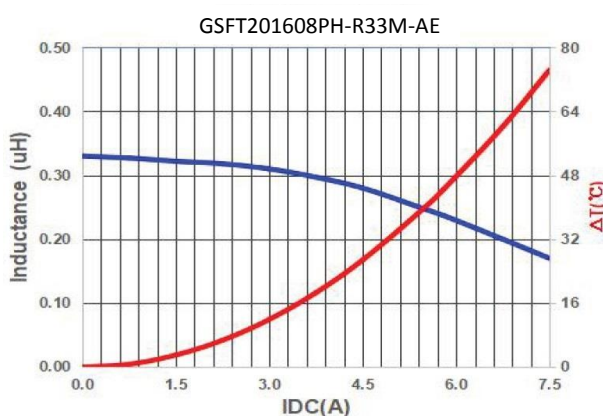
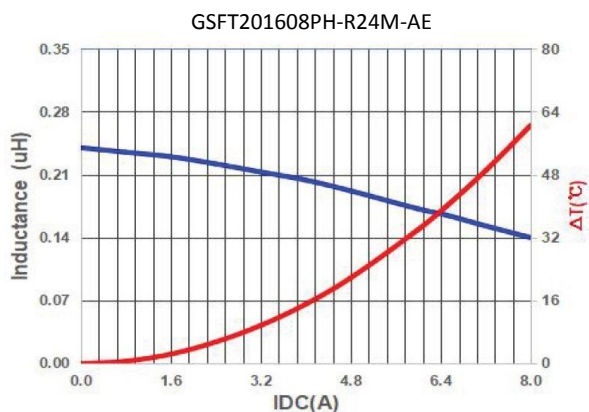
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC:** The application of voltage depends on many factors,Over voltage may cause components failure, high temperature,and burn-out,User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201608PH-SERIES-AE

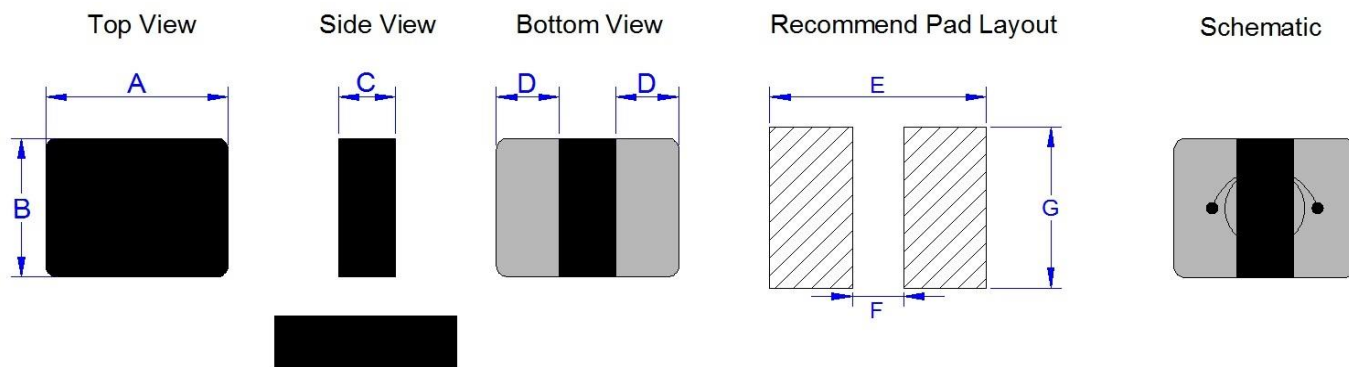
Typical Performance Curves :



Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R0	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201610PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
201610PH	2.0	1.6	0.8	0.7	2.5	0.5	1.9

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT201610PH-R10M-AE	0.10	M	8.0	14.0	9.0	8.4	8.5	8.0
GSFT201610PH-R15M-AE	0.15	M	10.0	16.0	8.7	8.0	7.6	7.0
GSFT201610PH-R24M-AE	0.24	M	15.0	18.0	7.3	7.0	6.8	6.2
GSFT201610PH-R33M-AE	0.33	M	17.0	20.0	7.0	6.5	6.5	6.0
GSFT201610PH-R47M-AE	0.47	M	19.0	22.0	6.3	5.5	6.0	5.5
GSFT201610PH-R68M-AE	0.68	M	24.0	31.0	5.2	4.7	5.0	4.5
GSFT201610PH-1R0M-AE	1.00	M	38.0	46.0	4.8	4.2	4.0	3.7
GSFT201610PH-1R5M-AE	1.50	M	80.0	96.0	3.5	3.1	3.4	3.0
GSFT201610PH-2R2M-AE	2.20	M	120.0	138.0	3.0	2.8	2.8	2.5
GSFT201610PH-3R3M-AE	3.30	M	140.0	170.0	2.3	2.0	1.7	1.5
GSFT201610PH-4R7M-AE	4.70	M	190.0	220.0	2.0	1.8	1.6	1.4

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

* **Inductance Tolerance :** M = +/-20%

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

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

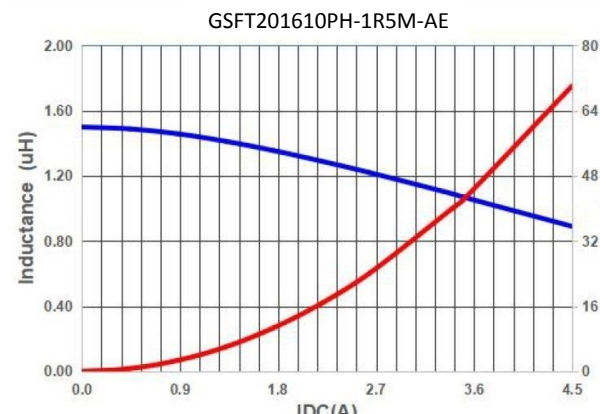
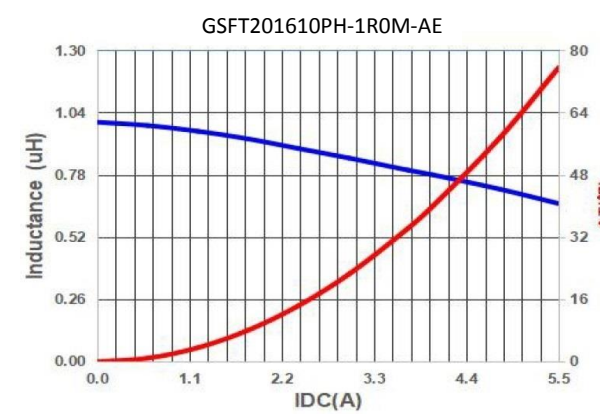
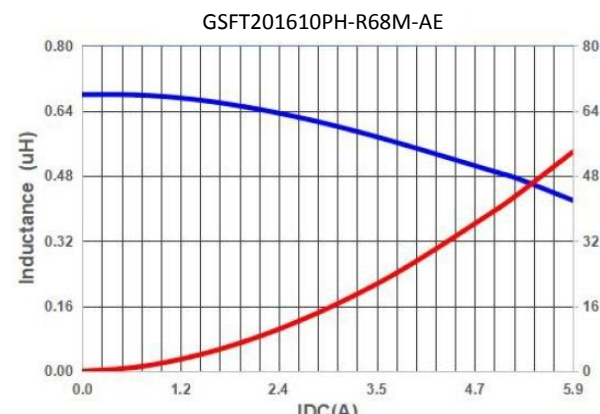
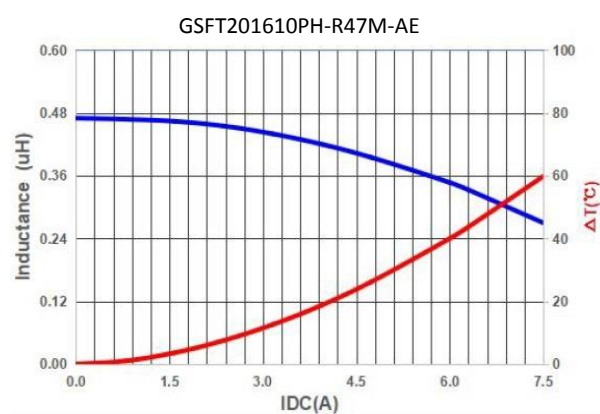
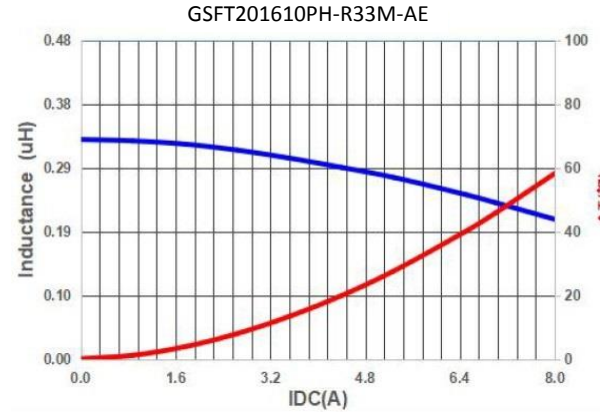
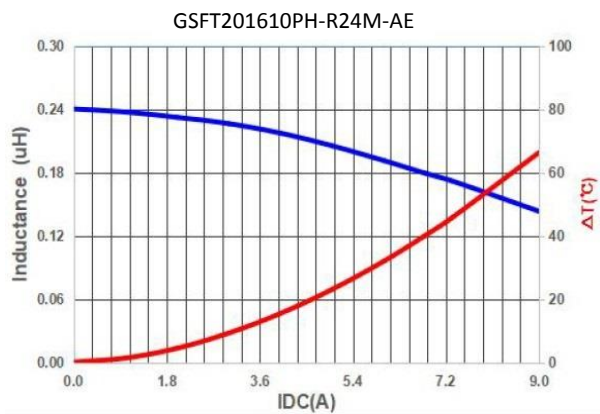
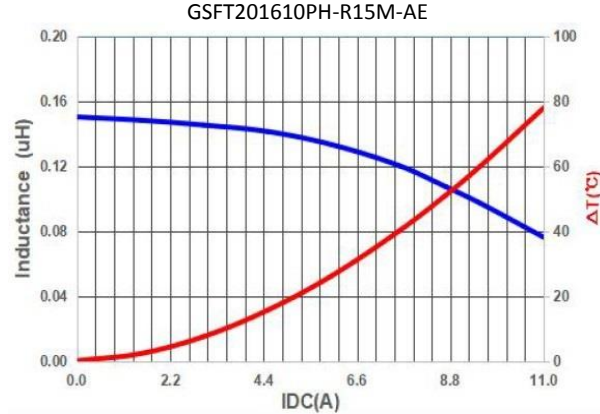
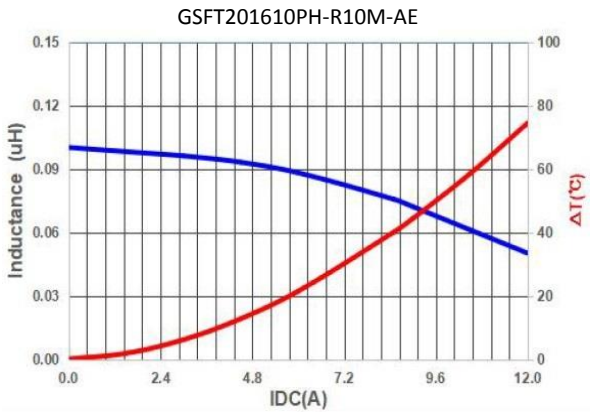
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC:** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201610PH-SERIES-AE

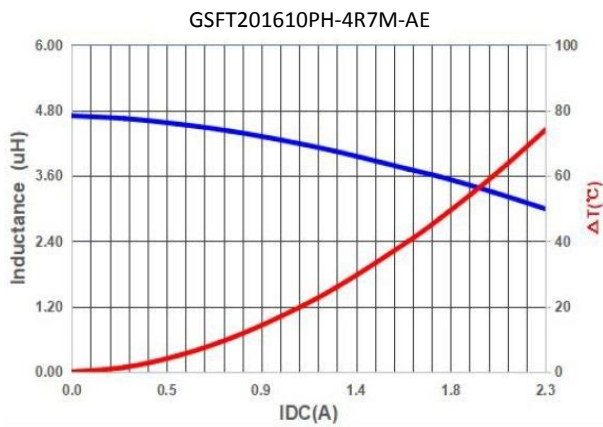
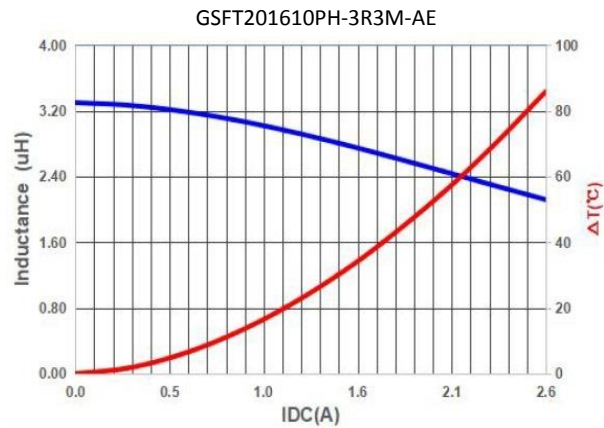
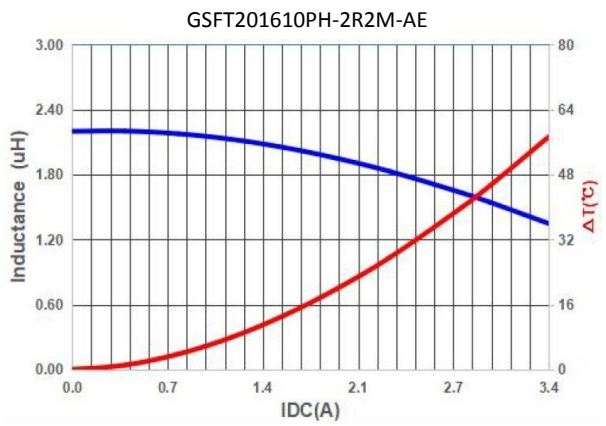
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201610PH-SERIES-AE

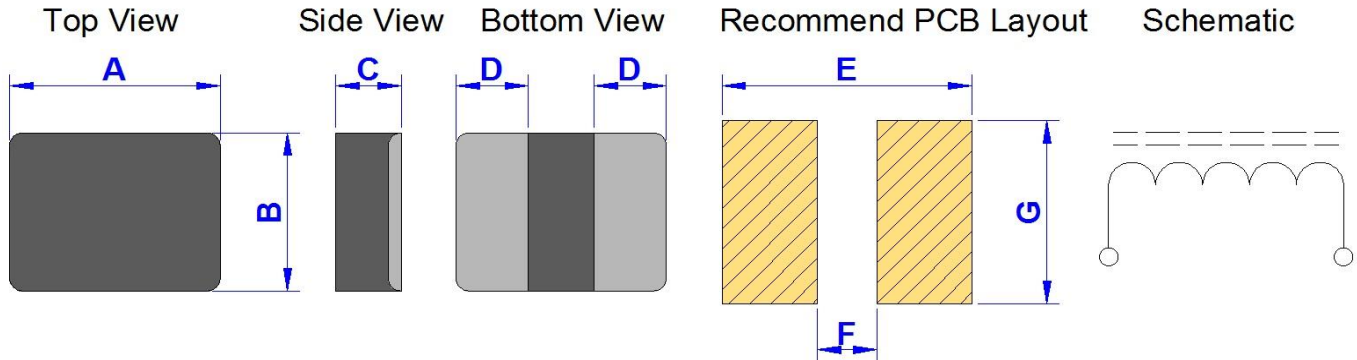
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201610P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
201610	2.0	1.6	0.8	0.7	2.5	0.5	1.9

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT201610P-R22M-AE	0.22	M	10.50	12.60	8.0	7.0	7.0	6.0
GSFT201610P-R24M-AE	0.24	M	18.00	20.50	7.7	6.7	6.5	5.5
GSFT201610P-R33M-AE	0.33	M	21.00	26.00	7.0	6.2	5.7	5.2
GSFT201610P-R47M-AE	0.47	M	28.00	32.00	6.0	5.3	5.3	4.7
GSFT201610P-R56M-AE	0.56	M	31.00	37.20	5.2	4.6	4.6	4.0
GSFT201610P-R68M-AE	0.68	M	44.00	50.00	5.0	4.4	4.0	3.4
GSFT201610P-1R0M-AE	1.00	M	49.00	59.00	4.4	3.8	3.6	3.2
GSFT201610P-1R5M-AE	1.50	M	80.00	96.00	3.0	2.7	2.6	2.3
GSFT201610P-2R2M-AE	2.20	M	130.00	150.00	2.65	2.45	2.3	2.0

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

* **Inductance Tolerance :** M = +/-20%

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

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

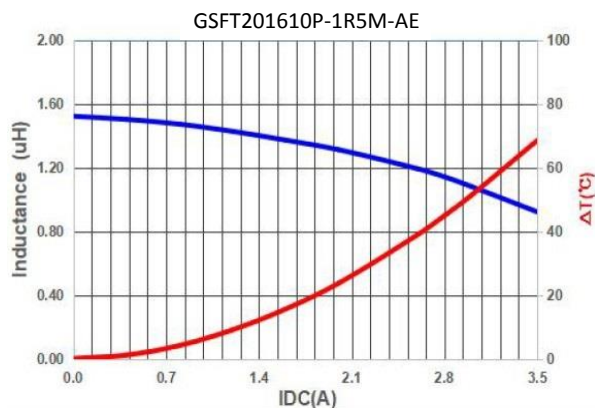
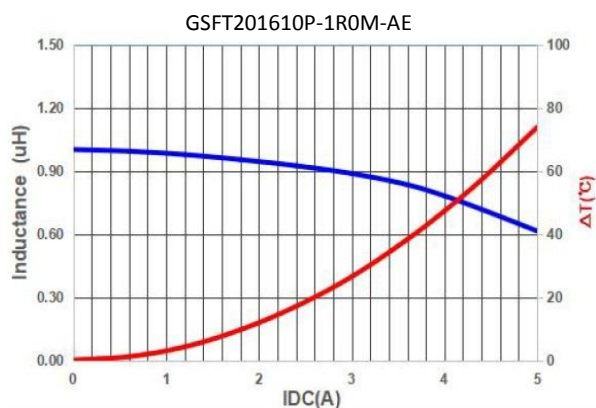
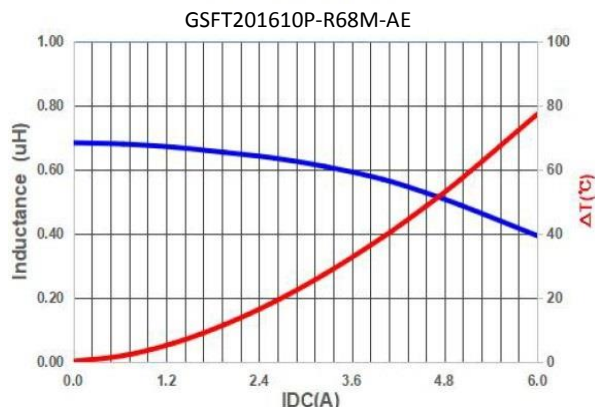
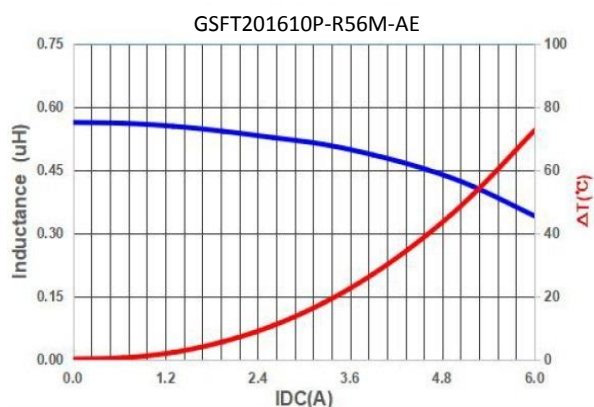
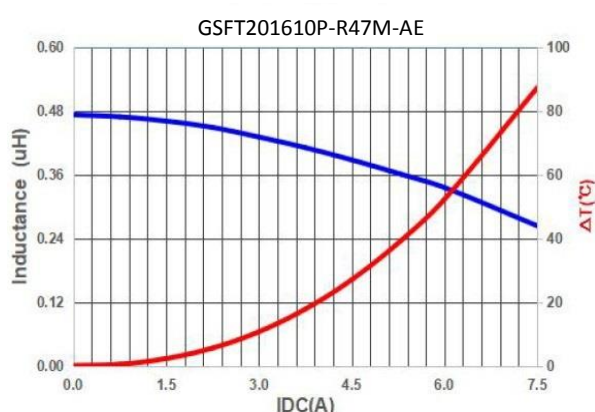
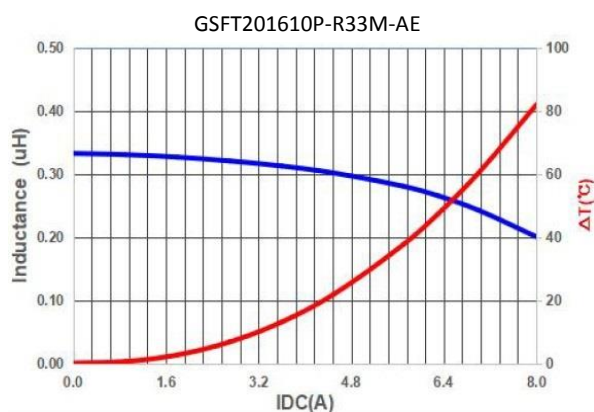
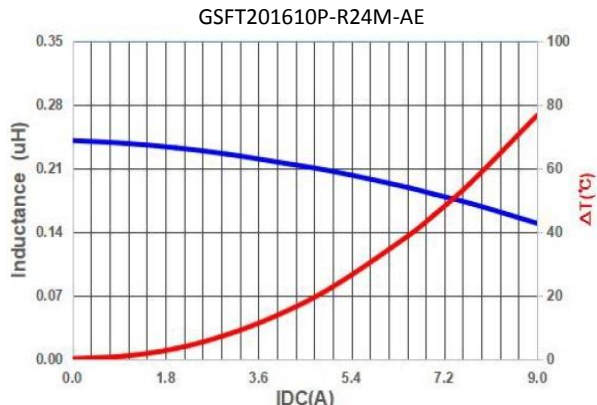
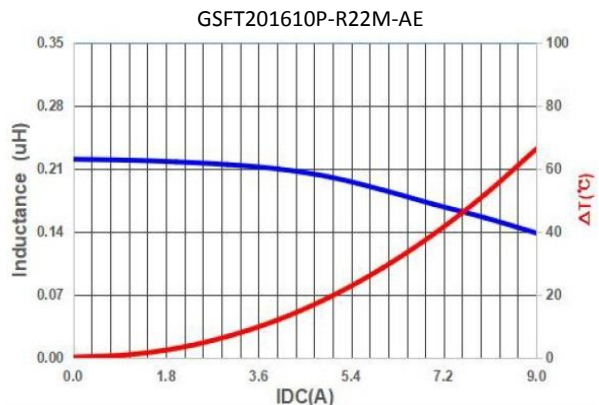
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201610P-SERIES-AE

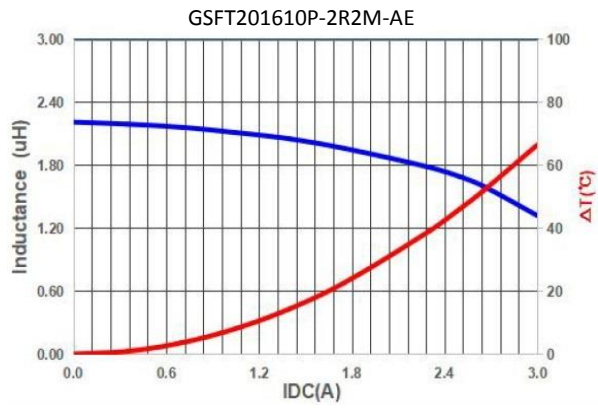
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201610P-SERIES-AE

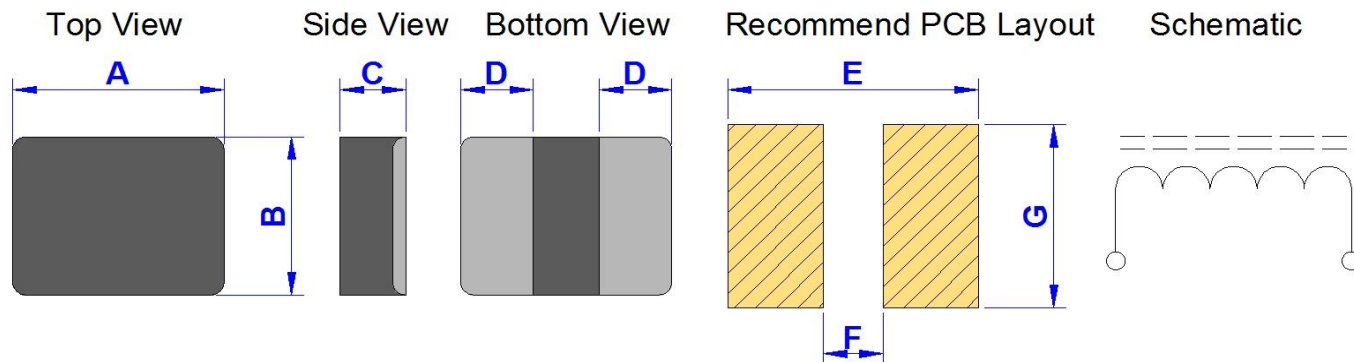
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201612P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
201612	2.0	1.6	1.0	0.7	2.5	0.5	1.9

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT201612P-R22M-AE	0.22	M	10.00	13.00	8.0	7.0	7.0	6.0
GSFT201612P-R33M-AE	0.33	M	15.00	18.00	7.0	6.2	5.9	5.3
GSFT201612P-R47M-AE	0.47	M	20.00	26.00	6.0	5.3	5.4	4.8
GSFT201612P-R68M-AE	0.68	M	30.00	36.00	5.0	4.4	4.2	3.7
GSFT201612P-1R0M-AE	1.00	M	40.00	48.00	4.5	4.0	3.7	3.3
GSFT201612P-1R5M-AE	1.50	M	70.00	84.00	3.1	2.8	2.9	2.5
GSFT201612P-2R2M-AE	2.20	M	105.00	126.00	2.7	2.5	2.5	2.1

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

* **Inductance Tolerance :** M = +/-20%

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

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

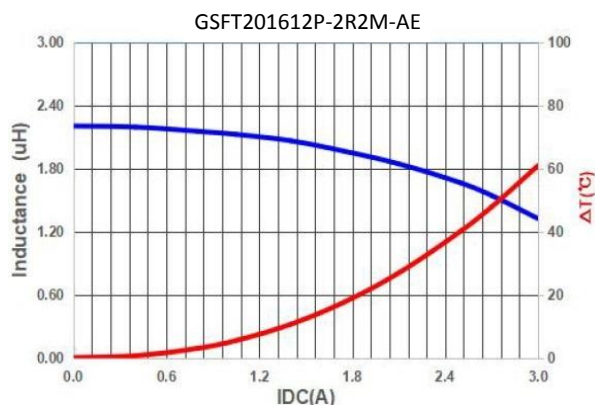
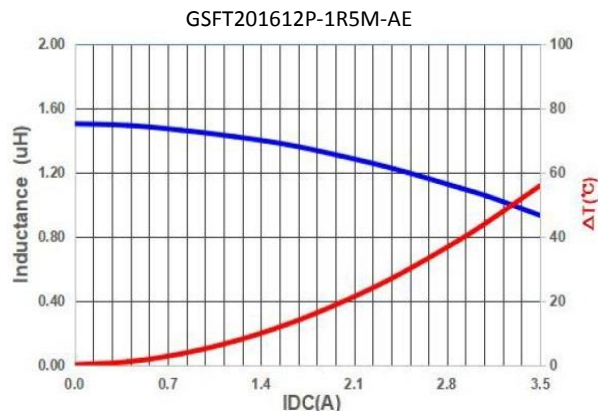
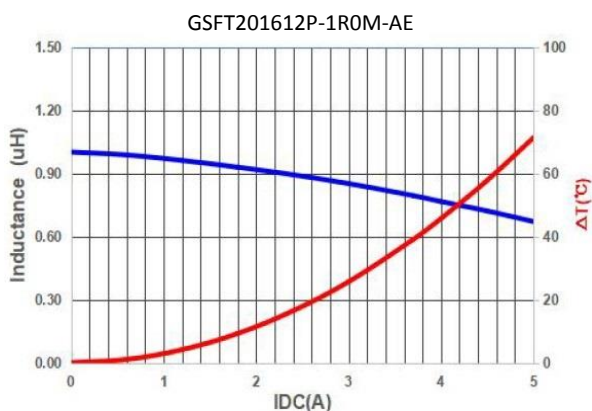
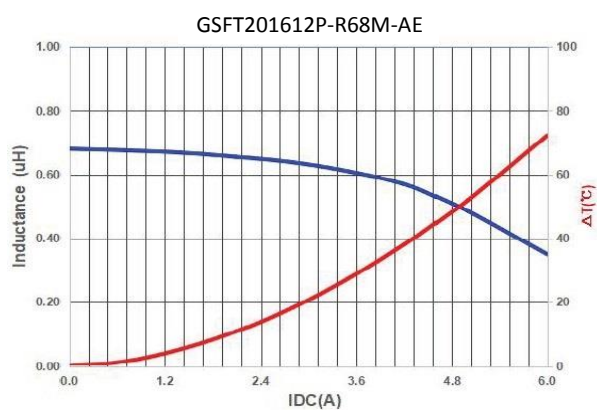
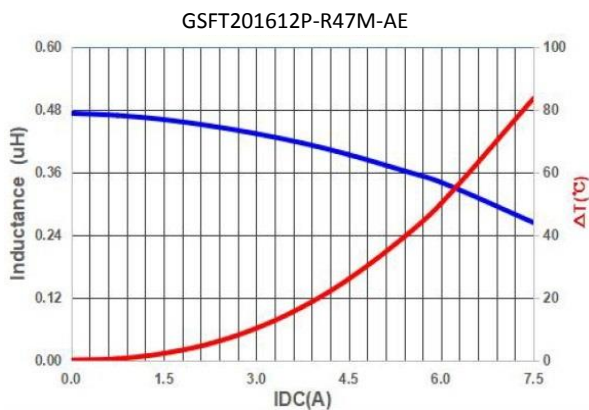
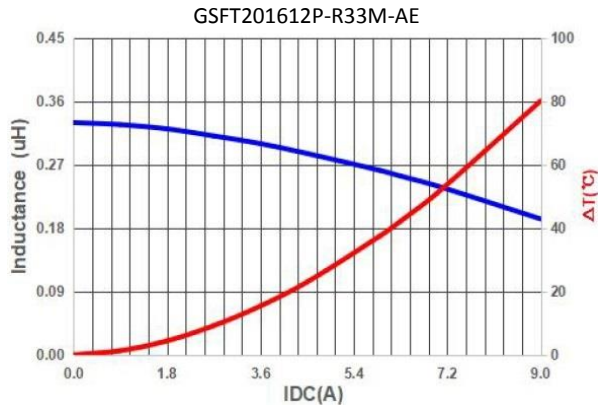
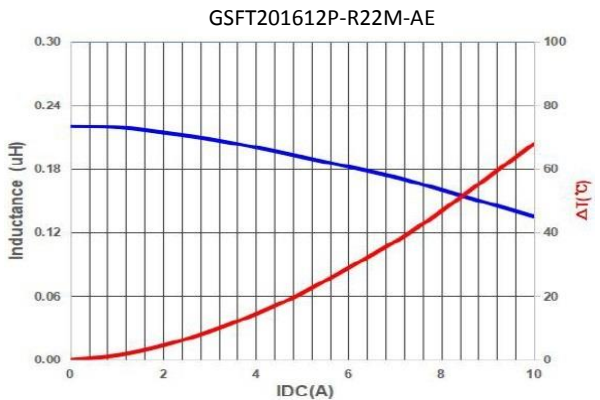
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT201612P-SERIES-AE

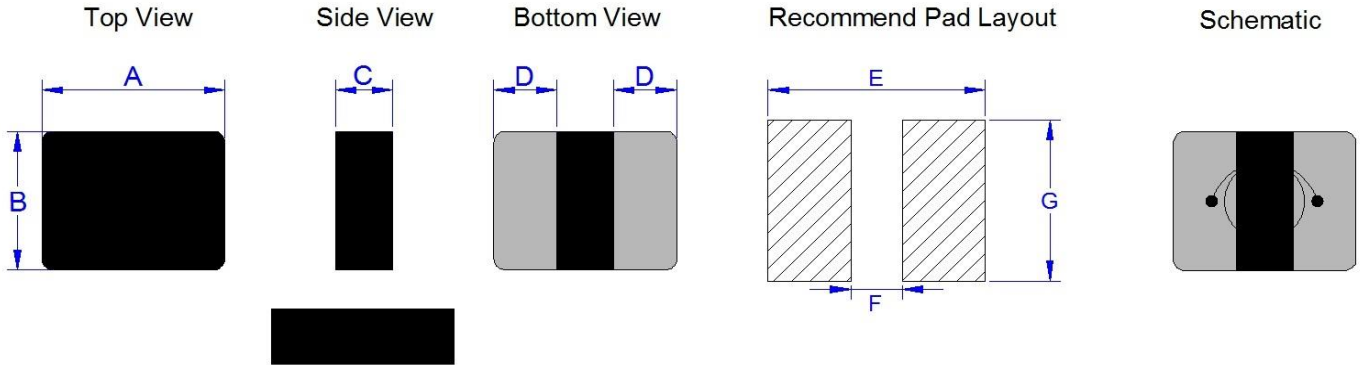
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252010PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
252010PH	2.5	2.0	0.8	0.9	2.9	0.5	2.3

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT252010PH-R33M-AE	0.33	M	13.0	17.0	7.6	7.2	6.6	6.2
GSFT252010PH-R47M-AE	0.47	M	15.0	22.0	6.9	6.5	6.1	5.6
GSFT252010PH-R68M-AE	0.68	M	23.0	27.0	5.9	5.5	5.6	5.0
GSFT252010PH-1R0M-AE	1.00	M	24.0	28.0	5.3	4.8	4.5	4.1
GSFT252010PH-1R5M-AE	1.50	M	45.0	55.0	4.3	3.9	4.0	3.6
GSFT252010PH-2R2M-AE	2.20	M	57.0	66.0	3.4	3.0	2.9	2.6
GSFT252010PH-3R3M-AE	3.30	M	86.0	100.0	2.8	2.5	2.5	2.2
GSFT252010PH-4R7M-AE	4.70	M	180.0	216.0	2.6	2.0	2.0	1.6
GSFT252010PH-100M-AE	10.0	M	490.0	520.0	1.6	1.4	1.2	1.1

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

* **Inductance Tolerance :** M = +/-20%

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

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

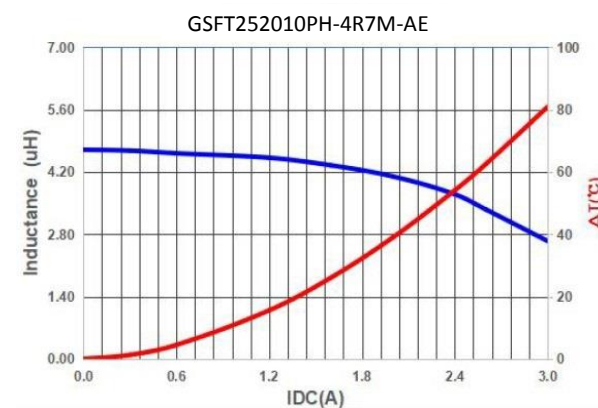
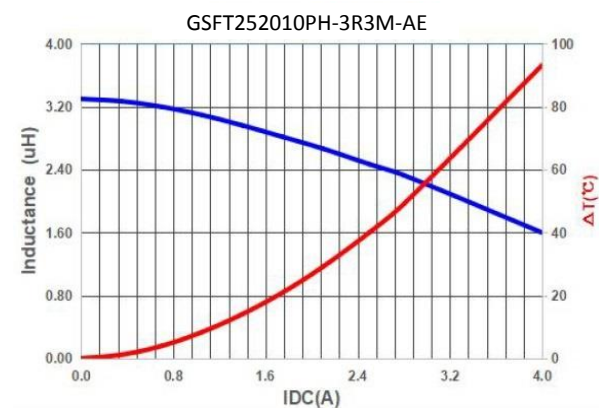
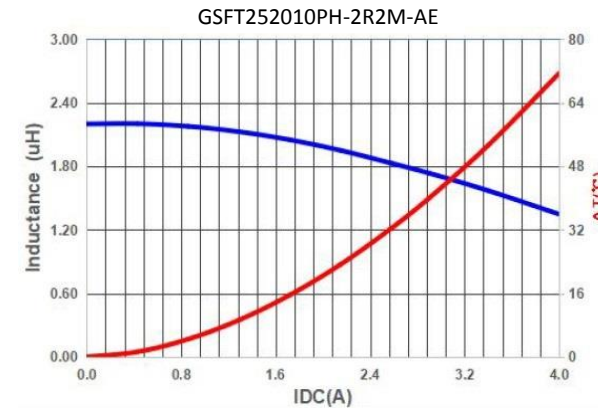
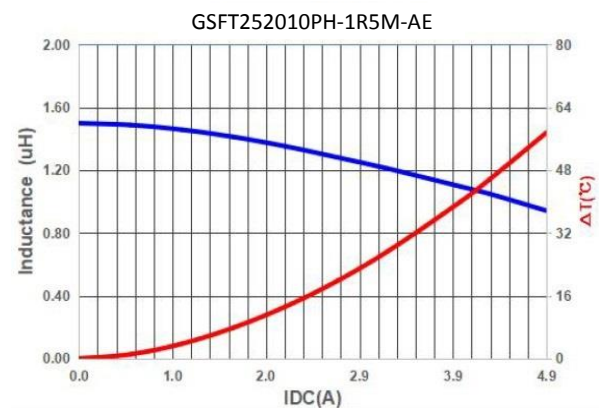
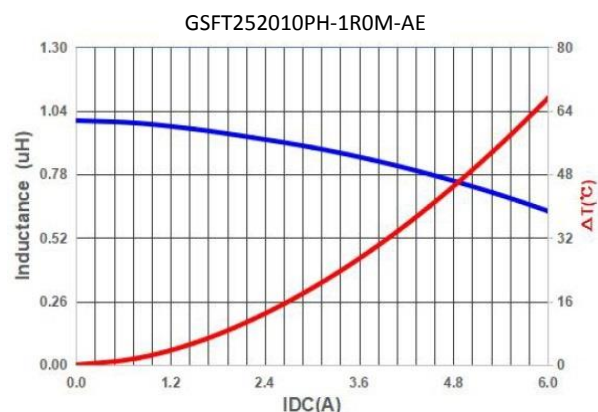
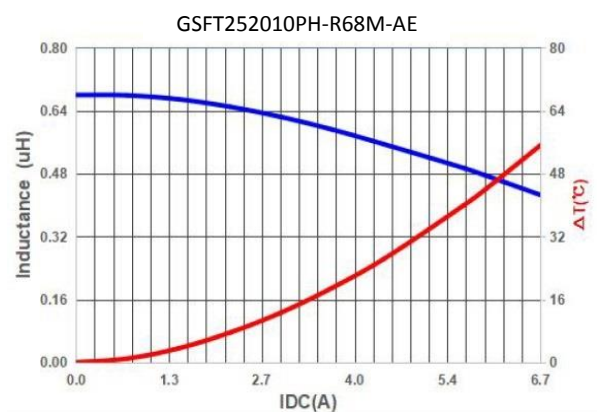
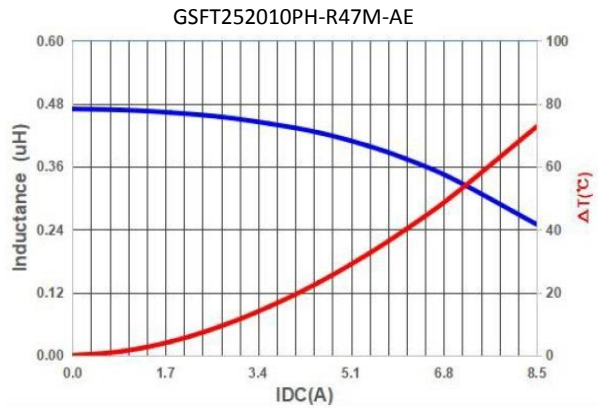
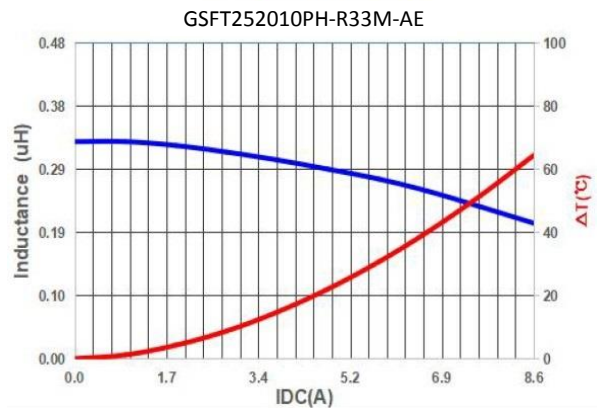
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC:** The application of voltage depends on many factors,Over voltage may cause components failure, high temperature,and burn-out,User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252010PH-SERIES-AE

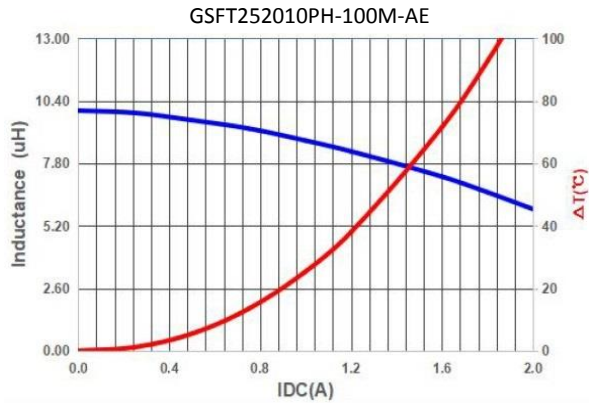
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252010PH-SERIES-AE

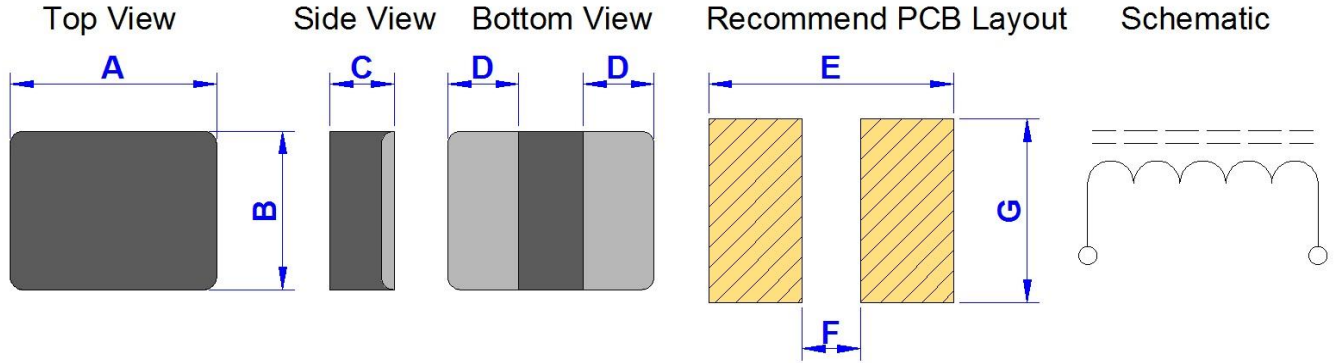
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252010P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
252010	2.5	2.0	0.8	0.9	2.9	0.5	2.3

Electrical Characteristics :

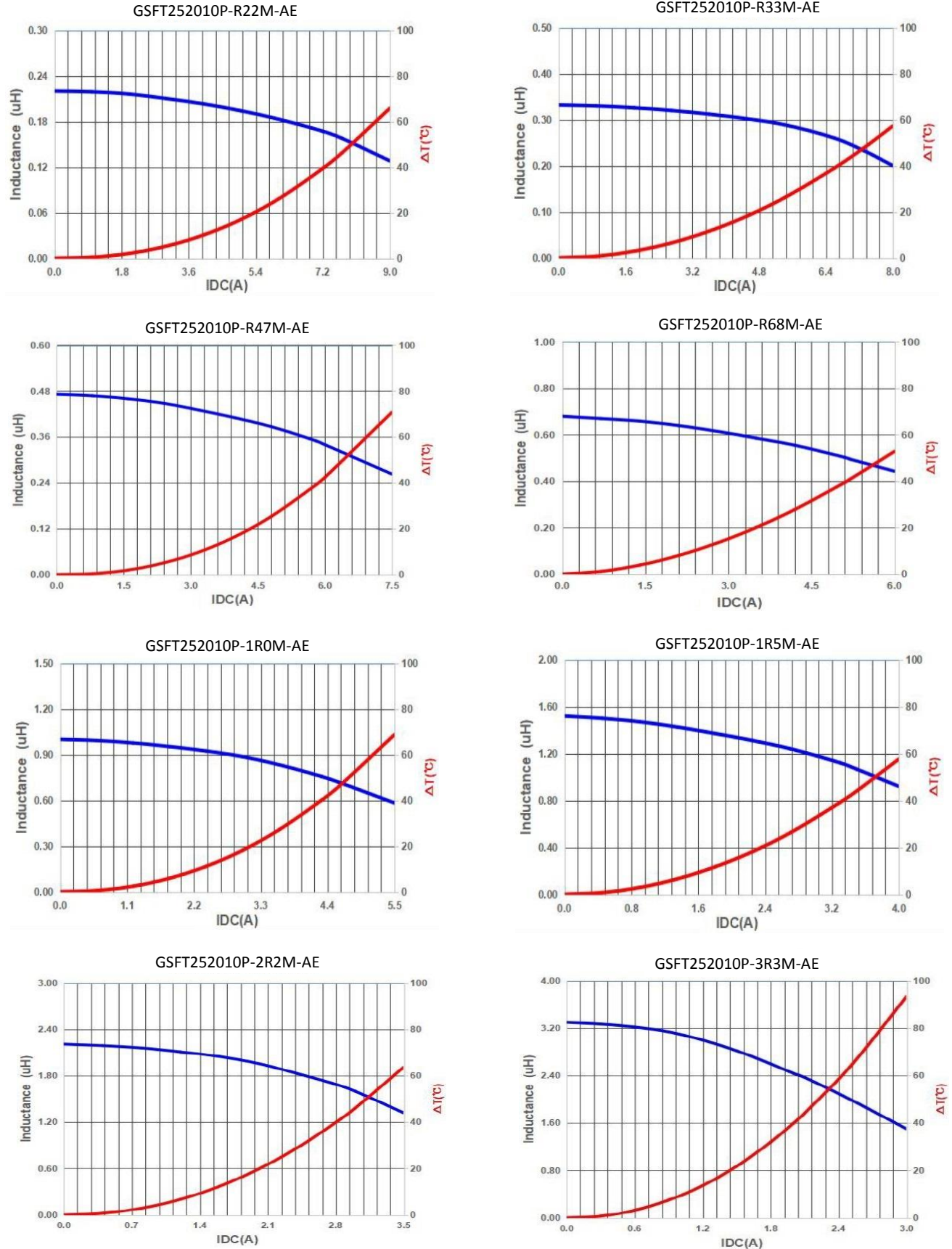
Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT252010P-R22M-AE	0.22	M	12.00	15.00	7.7	7.0	7.2	6.6
GSFT252010P-R33M-AE	0.33	M	16.00	19.00	7.2	6.4	6.6	6.0
GSFT252010P-R47M-AE	0.47	M	20.00	24.00	6.0	5.4	5.8	5.1
GSFT252010P-R68M-AE	0.68	M	25.00	30.00	5.2	4.8	5.1	4.7
GSFT252010P-1R0M-AE	1.00	M	42.00	50.40	4.6	3.8	4.3	4.0
GSFT252010P-1R5M-AE	1.50	M	60.00	72.00	3.5	3.2	3.3	3.0
GSFT252010P-2R2M-AE	2.20	M	85.00	102.00	3.0	2.7	2.8	2.5
GSFT252010P-3R3M-AE	3.30	M	130.00	156.00	2.1	1.8	2.0	1.7

- * **Test Condition :** @100KHz , 1.0Vrms , 25°C Ambient
- * **Inductance Tolerance :** M = +/-20%
- * **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.
- * **Rated voltage 25V DC :** The application of voltage depends on many factors,Over voltage may cause components failure, high temperature,and burn-out,User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252010P-SERIES-AE

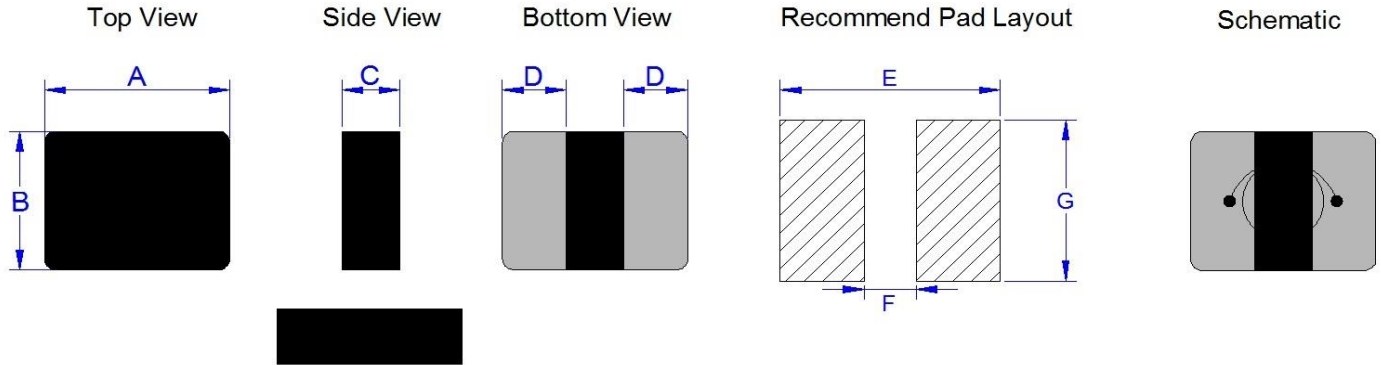
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252012PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
252012PH	2.5	2.0	1.0	0.9	2.9	0.5	2.3

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT252012PH-R10M-AE	0.10	M	4.0	7.0	12.0	10.0	12.0	8.0
GSFT252012PH-R22M-AE	0.22	M	9.0	10.8	9.6	9.0	8.2	7.6
GSFT252012PH-R33M-AE	0.33	M	10.0	12.0	8.0	7.5	7.0	6.4
GSFT252012PH-R68M-AE	0.68	M	19.0	23.0	6.5	6.0	6.1	5.5
GSFT252012PH-1R0M-AE	1.00	M	31.0	37.0	5.8	5.3	5.7	5.2
GSFT252012PH-2R2M-AE	2.20	M	52.0	60.0	4.0	3.3	3.7	3.3
GSFT252012PH-3R3M-AE	3.30	M	80.0	97.0	3.0	2.7	2.8	2.5
GSFT252012PH-4R7M-AE	4.70	M	170.0	204.0	2.8	2.2	2.3	2.0
GSFT252012PH-100M-AE	10.0	M	330.0	400.0	1.6	1.45	1.2	1.05

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

* **Inductance Tolerance :** M = +/-20%

* **Irms :** Rated Current Loading when temperature rise approximately ΔT of 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.

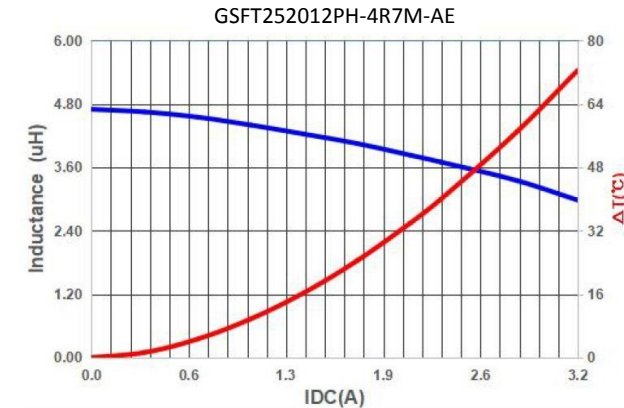
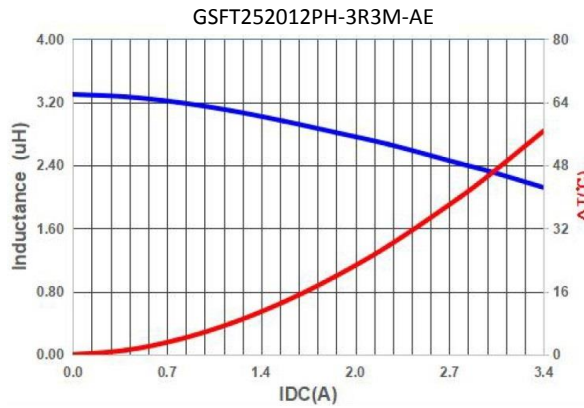
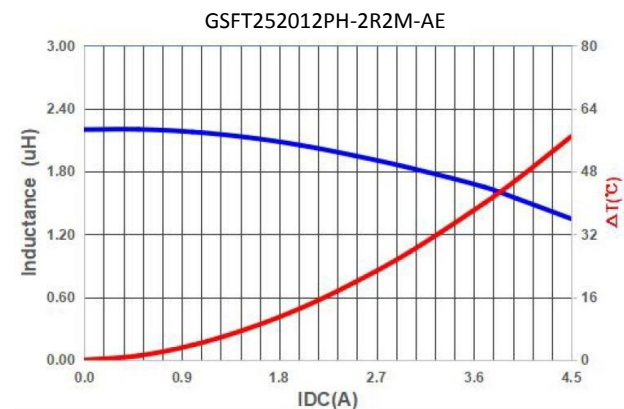
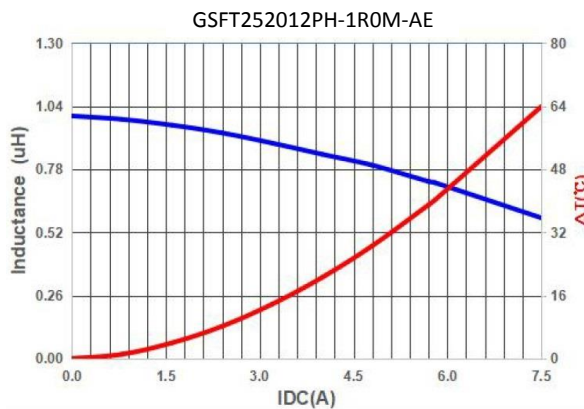
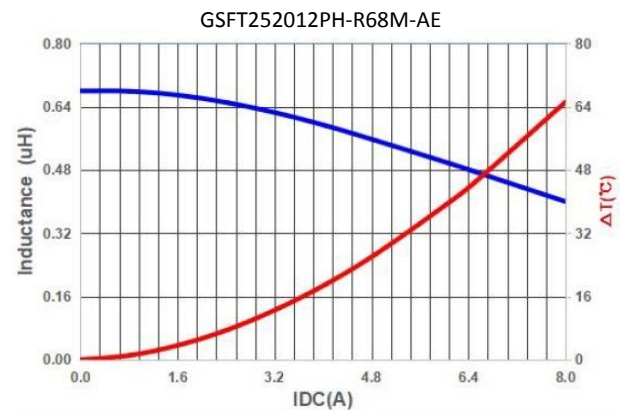
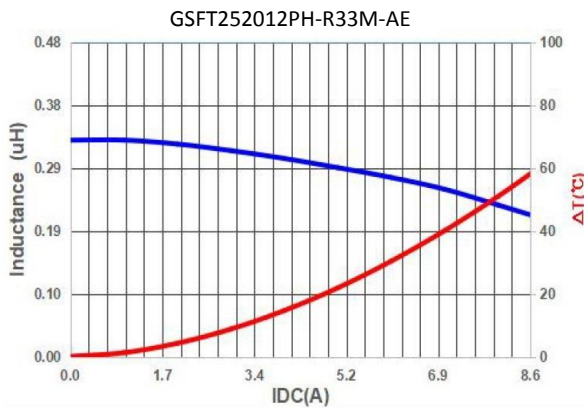
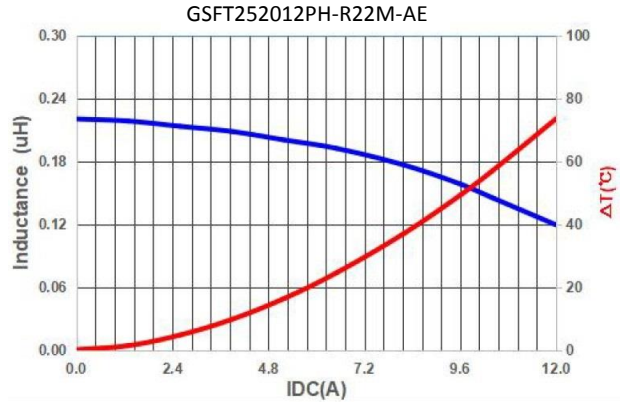
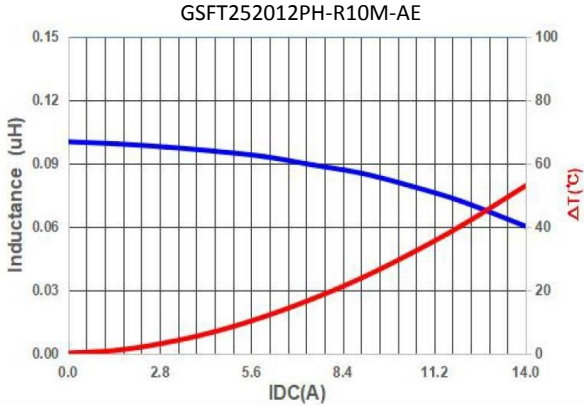
* **Rated voltage 25V DC:** The application of voltage depends on many factors,Over voltage may cause components failure, high temperature,and burn-out,User needs to verify for appropriate usage.

Product Series :	GSFT
File Version :	GSFT-SERIES-AE-V1R0
Established Date :	2023.03.28
Latest Edit Date :	2023.09.25

Brand :	GOTREND
Editor :	Jerry Chen
Description :	High Current Inductor
Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252012PH-SERIES-AE

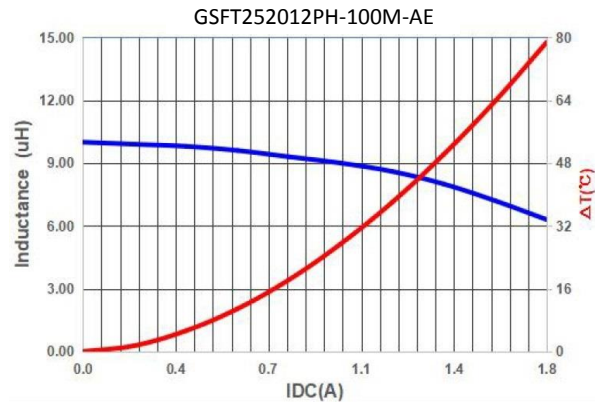
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252012PH-SERIES-AE

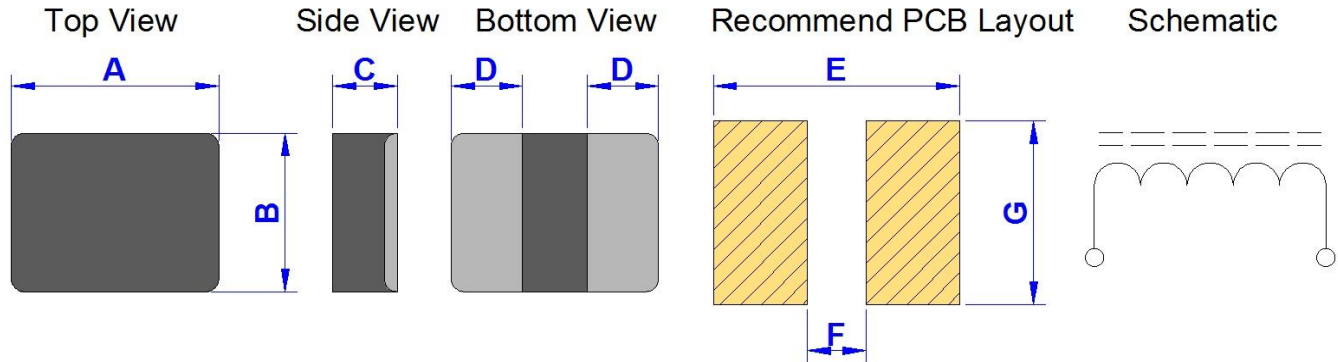
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252012P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
252012	2.5	2.0	1.0	0.9	2.9	0.5	2.3

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT252012P-R15M-AE	0.15	M	8.00	9.60	11.0	10.0	9.0	8.0
GSFT252012P-R24M-AE	0.24	M	11.00	13.20	7.8	7.2	7.3	6.8
GSFT252012P-R33M-AE	0.33	M	14.00	17.00	7.5	6.8	6.8	6.3
GSFT252012P-R47M-AE	0.47	M	15.00	18.00	6.2	5.6	6.2	5.6
GSFT252012P-R68M-AE	0.68	M	23.00	27.60	5.5	5.0	5.3	4.9
GSFT252012P-1R0M-AE	1.00	M	33.00	39.60	5.0	4.2	4.5	4.2
GSFT252012P-1R5M-AE	1.50	M	43.00	51.60	4.0	3.5	3.7	3.4
GSFT252012P-2R2M-AE	2.20	M	66.00	79.20	3.4	3.1	3.1	2.8
GSFT252012P-3R3M-AE	3.30	M	115.00	138.00	3.0	2.7	2.4	2.2
GSFT252012P-4R7M-AE	4.70	M	170.00	204.00	2.8	2.5	2.0	1.8

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

* **Inductance Tolerance :** M = +/-20%

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

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

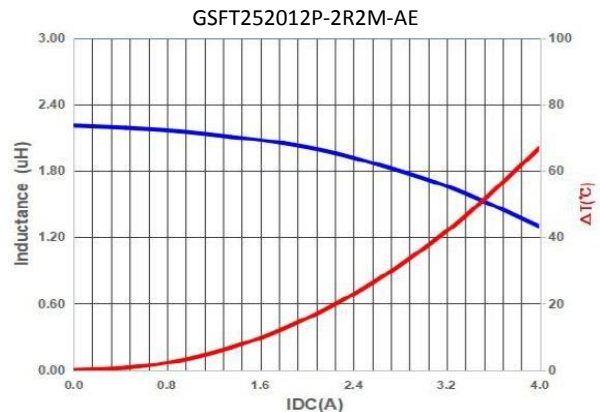
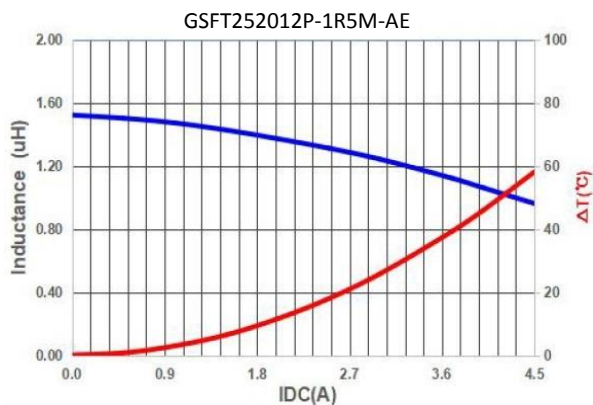
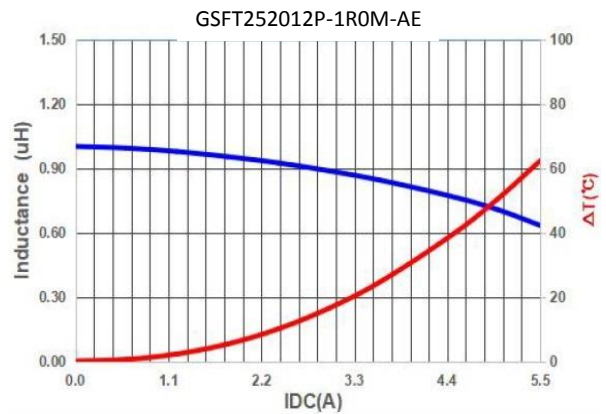
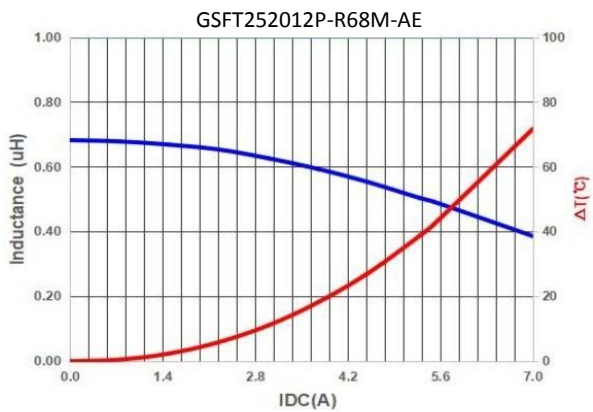
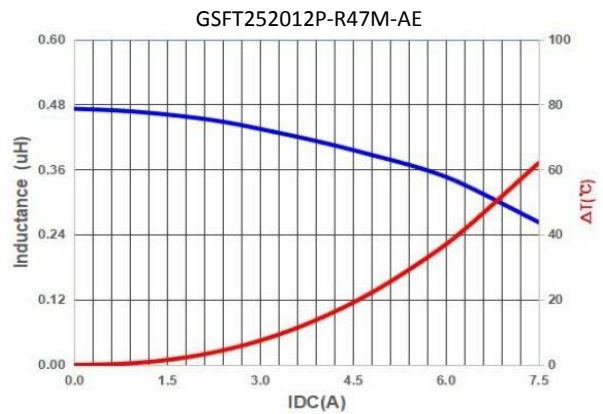
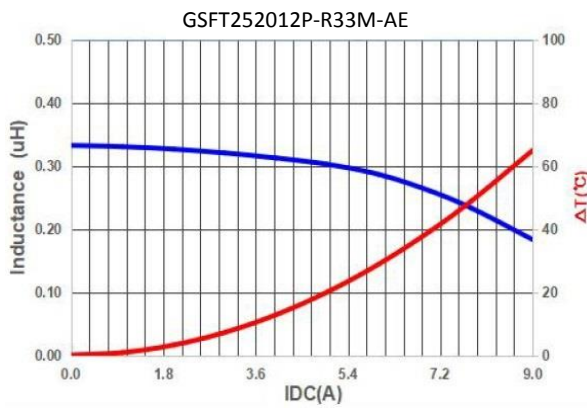
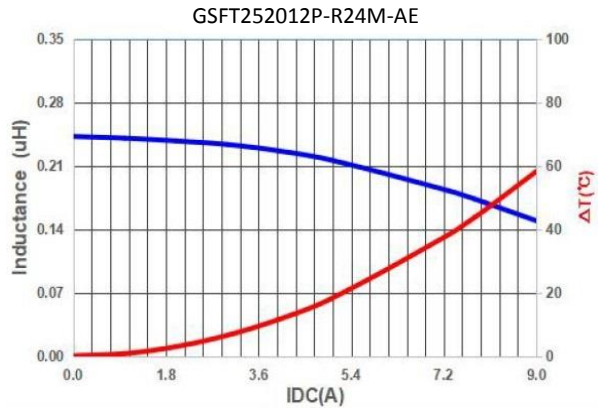
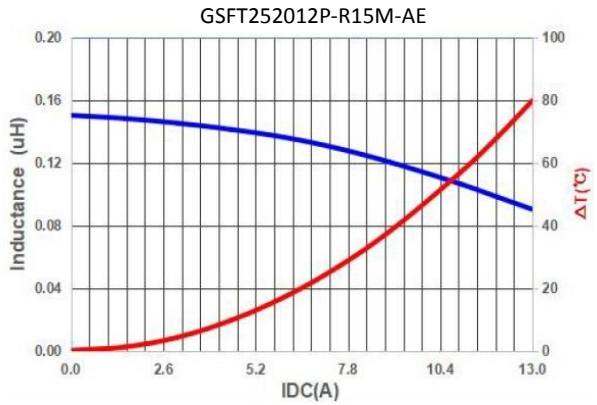
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252012P-SERIES-AE

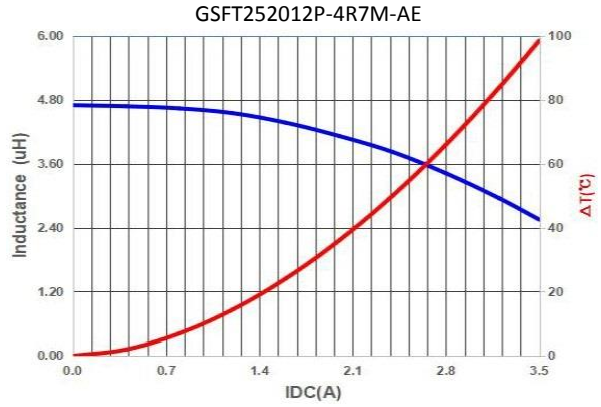
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT252012P-SERIES-AE

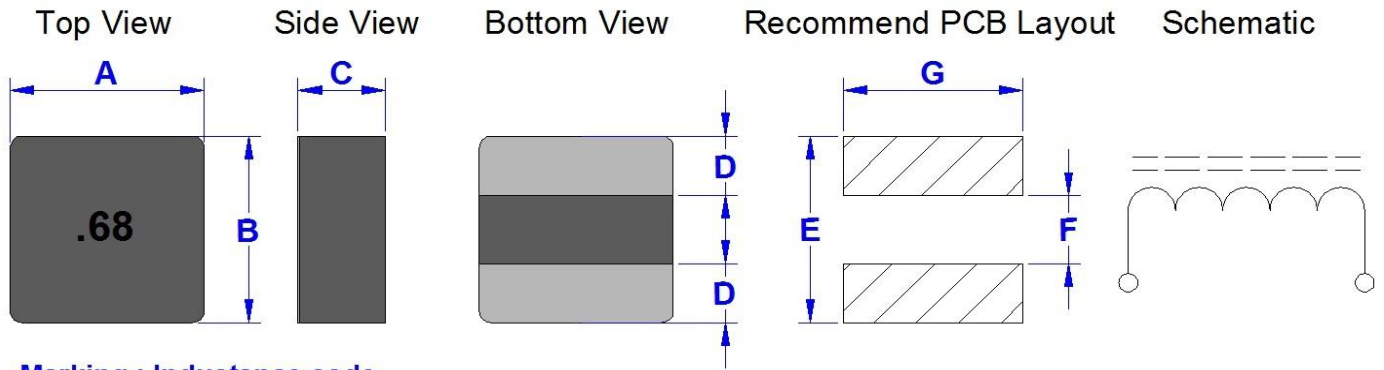
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT3012PL-R68M-AE

Dimension [mm] :



Marking : Inductance code

Size Code	A (+/-0.2)	B (+/-0.2)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
3012PL	3.10	3.20	1.00	1.05	3.50	0.80	3.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)		ACR (m Ohm) @1MHz Max.
			Typ.	Max.	Typ.	Max.	Typ.	Max.	
GSFT3012PL-R68M-AE	0.68	M	14.5	16.0	7.7	7.0	7.5	6.8	120.0

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

* Inductance Tolerance : M = +/-20%

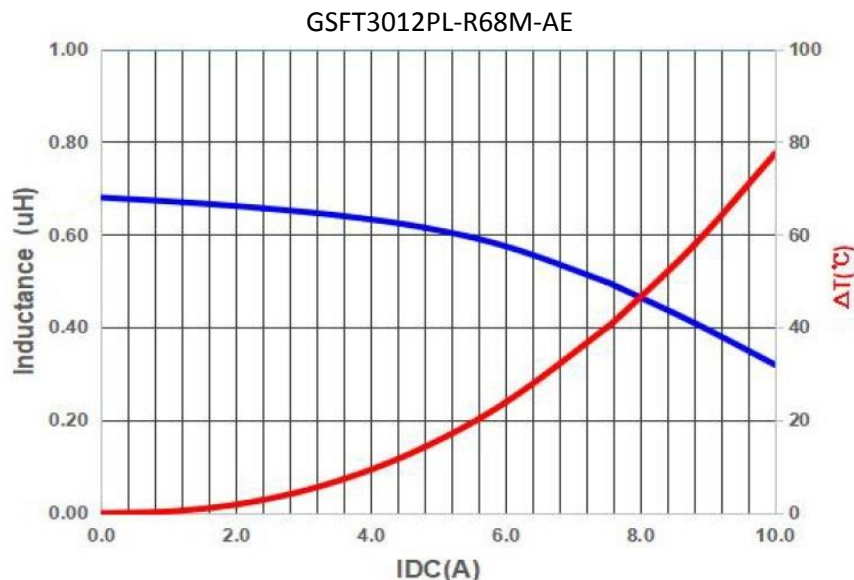
* Irms : Rated Current Loading when temperature rise approximately 40°C

* 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.

* Rated voltage 25V DC : The application of voltage depends on many factors, Over voltage may cause components failure, in the end application.

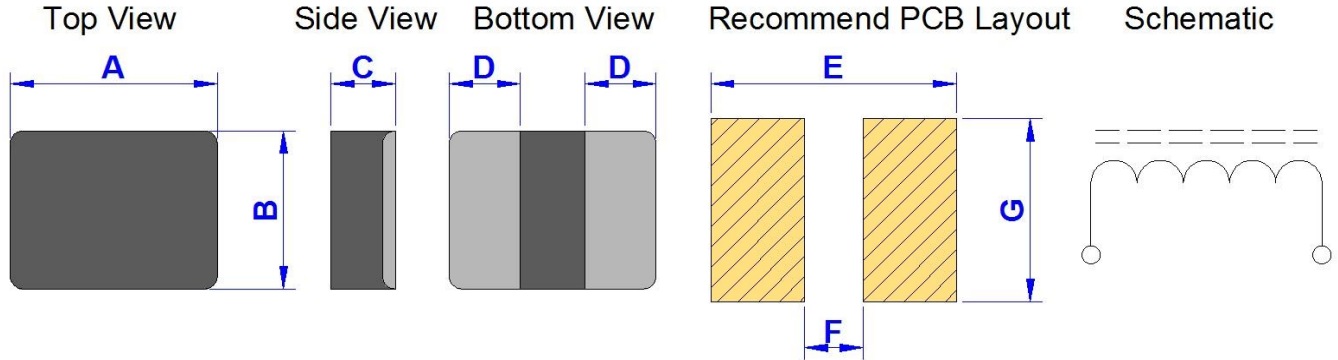
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322510P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
322510	3.2	2.5	0.8	1.1	3.7	0.7	2.8

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT322510P-R33M-AE	0.33	M	15.00	18.00	8.0	7.0	7.0	6.0
GSFT322510P-R47M-AE	0.47	M	18.00	21.60	6.5	5.5	6.0	5.5
GSFT322510P-R68M-AE	0.68	M	22.00	26.40	6.0	5.2	5.5	5.0
GSFT322510P-1R0M-AE	1.00	M	30.00	36.00	4.8	4.0	4.8	4.0
GSFT322510P-1R5M-AE	1.50	M	48.30	58.00	4.3	3.8	3.8	3.2
GSFT322510P-2R2M-AE	2.20	M	67.00	80.40	3.6	3.3	3.1	2.7
GSFT322510P-3R3M-AE	3.30	M	100.00	120.00	3.1	2.8	2.5	2.1
GSFT322510P-4R7M-AE	4.70	M	143.00	172.00	2.2	1.9	2.0	1.7

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

* **Inductance Tolerance :** M = +/-20%

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

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

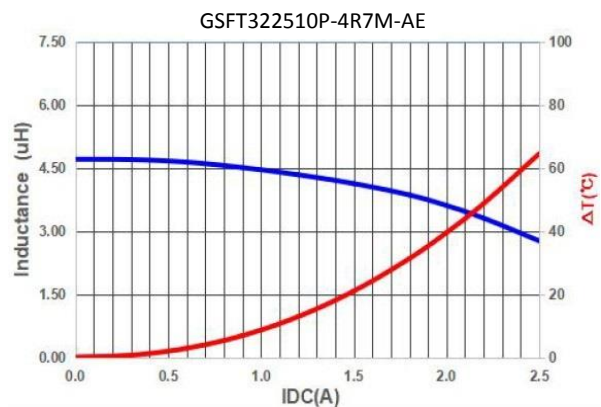
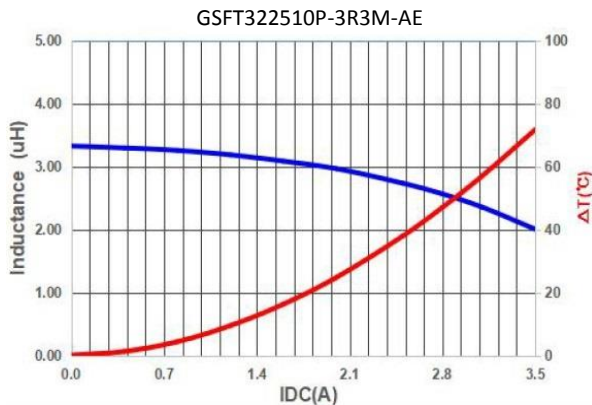
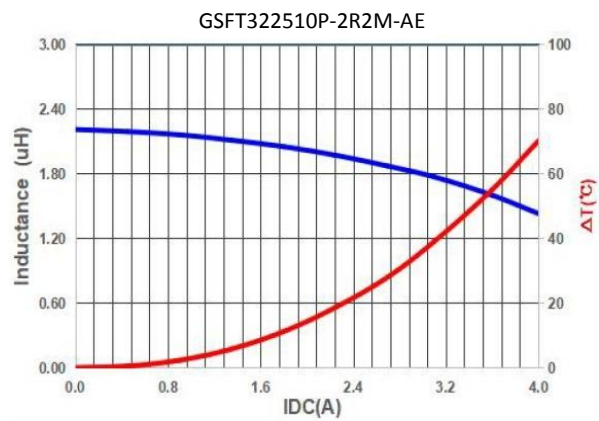
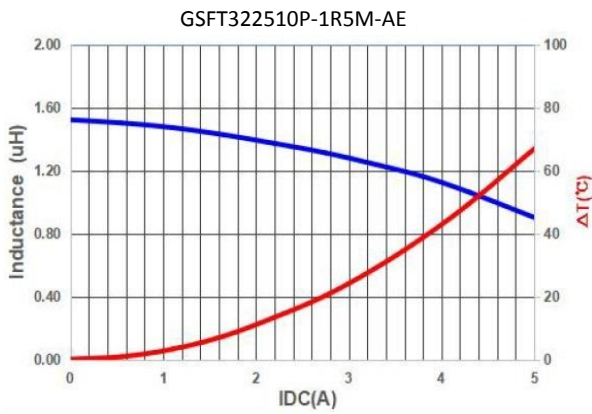
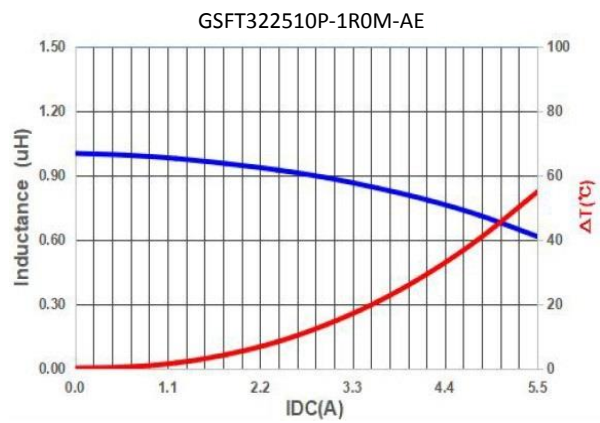
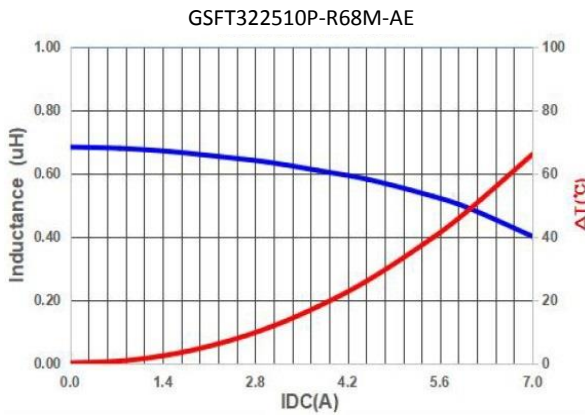
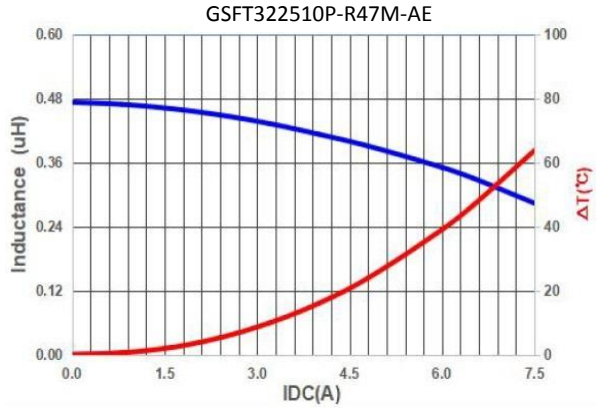
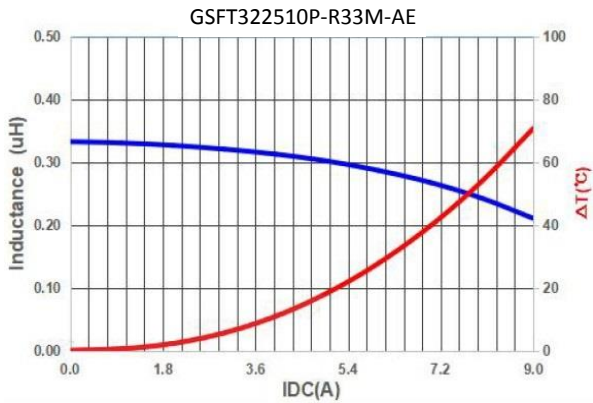
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322510P-SERIES-AE

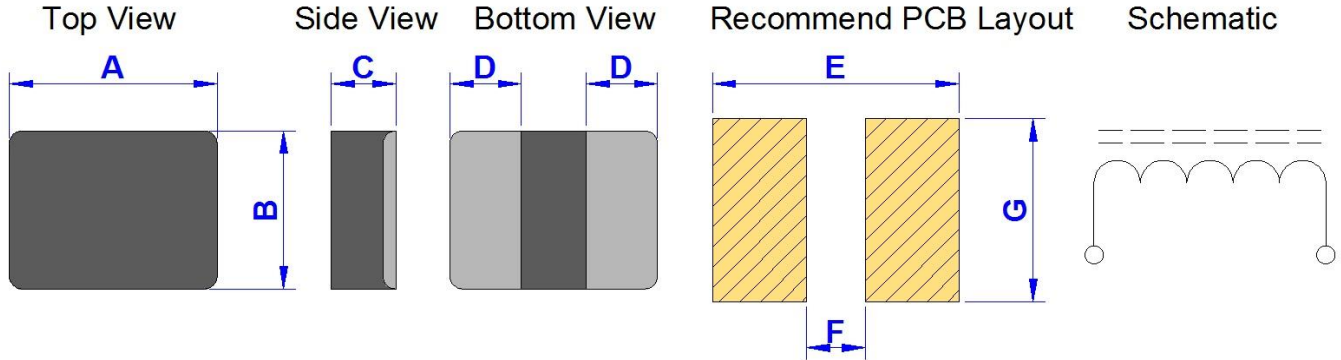
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322512P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
322512	3.2	2.5	1.0	1.1	3.7	0.7	2.8

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT322512P-R15M-AE	0.15	M	6.50	7.80	11.0	10.0	10.1	9.5
GSFT322512P-R22M-AE	0.22	M	7.40	8.50	9.3	8.7	9.5	9.0
GSFT322512P-R33M-AE	0.33	M	10.00	13.00	9.1	8.5	8.5	8.0
GSFT322512P-R47M-AE	0.47	M	16.00	19.20	8.2	7.4	7.0	6.5
GSFT322512P-R68M-AE	0.68	M	20.00	24.00	7.3	6.8	6.2	5.7
GSFT322512P-1R0M-AE	1.00	M	26.00	32.00	6.5	5.7	5.5	5.0
GSFT322512P-1R5M-AE	1.50	M	44.00	53.00	5.0	4.5	4.4	3.9
GSFT322512P-2R2M-AE	2.20	M	61.00	73.00	4.8	4.3	4.0	3.6
GSFT322512P-3R3M-AE	3.30	M	87.00	101.00	3.4	3.0	3.1	2.8
GSFT322512P-4R7M-AE	4.70	M	122.00	146.00	2.8	2.4	2.2	1.9

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

* **Inductance Tolerance :** M = +/-20%

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

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

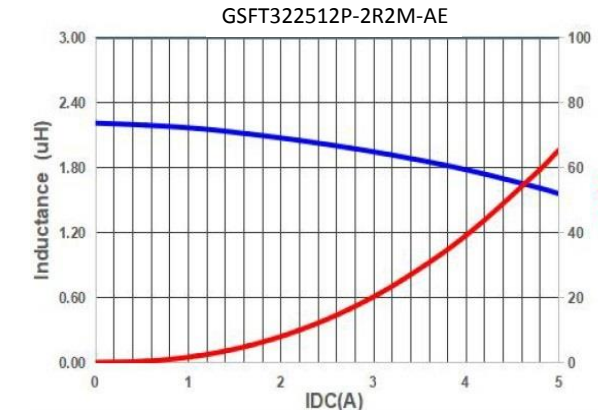
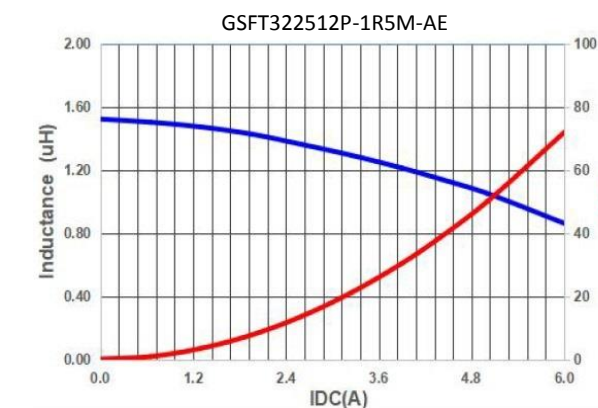
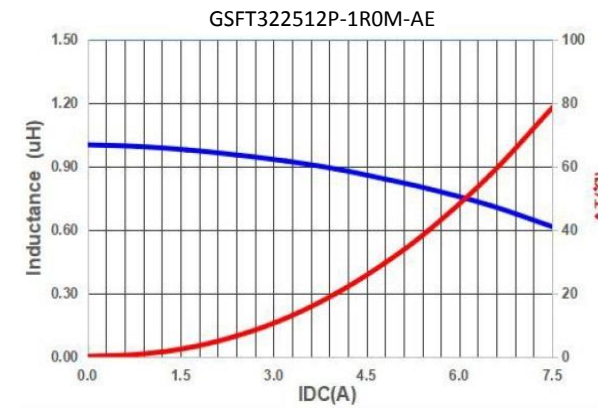
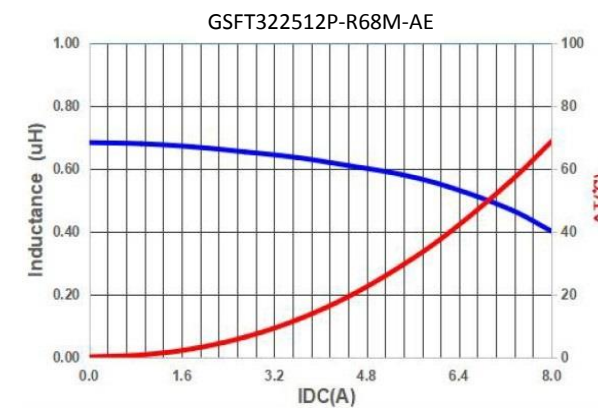
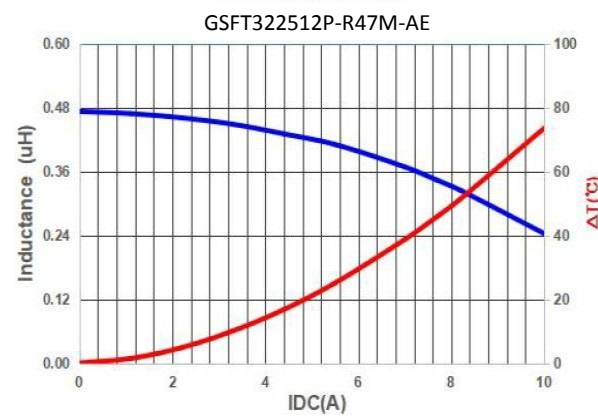
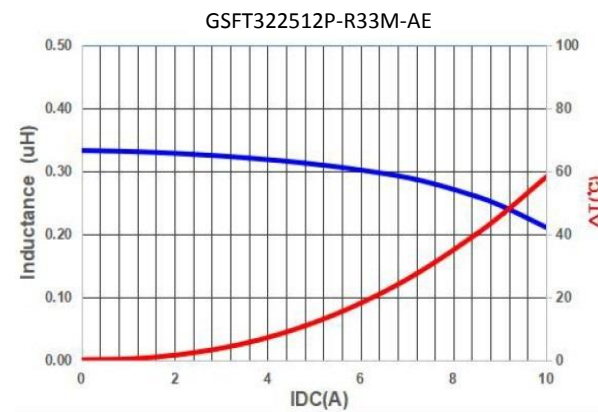
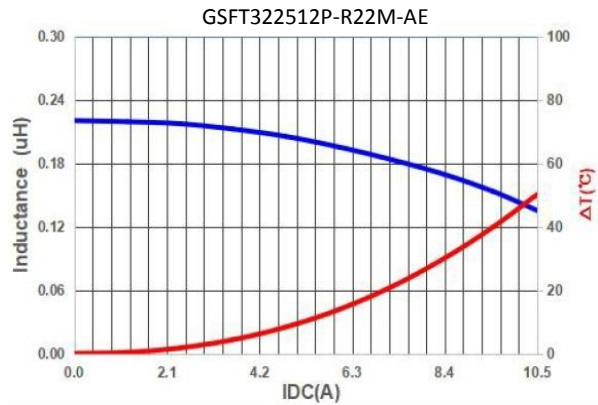
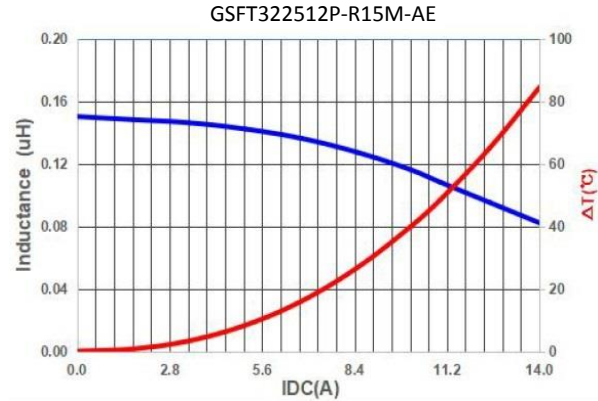
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322512P-SERIES-AE

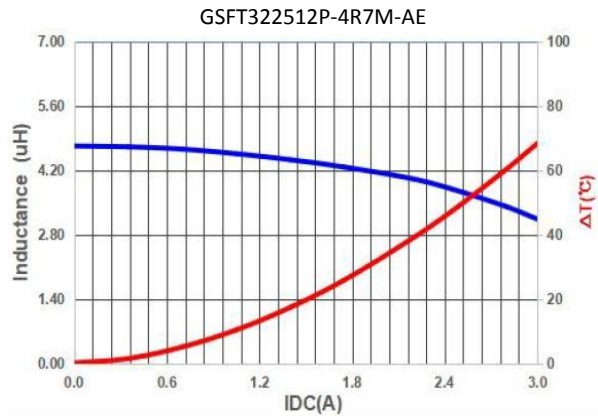
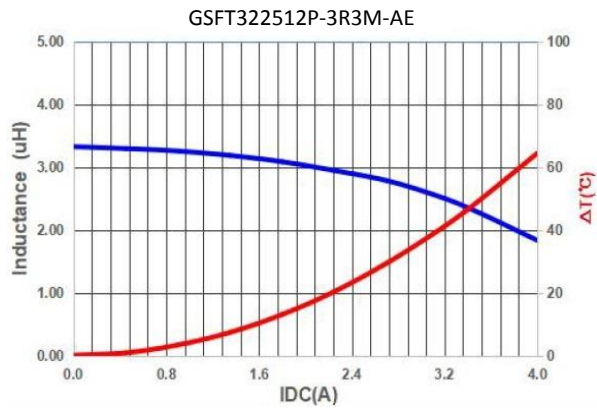
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322512P-SERIES-AE

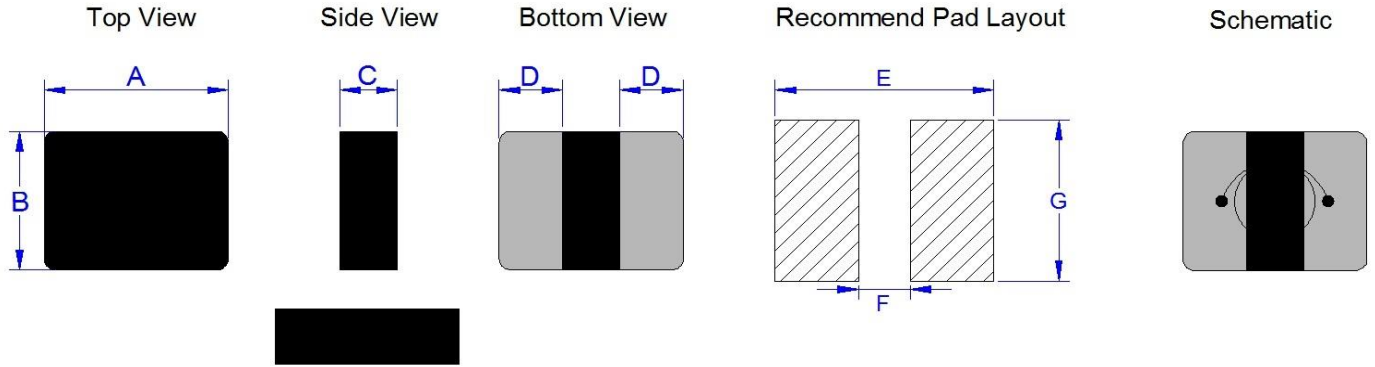
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322512PH-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
322512PH	3.2	2.5	1.0	1.1	3.7	0.7	2.8

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT322512PH-R22M-AE	0.22	M	7.4	8.5	9.3	8.7	9.5	9.0
GSFT322512PH-R33M-AE	0.33	M	9.0	12.0	9.2	8.6	8.5	8.0
GSFT322512PH-R47M-AE	0.47	M	17.0	19.0	8.3	7.5	7.1	6.6
GSFT322512PH-R68M-AE	0.68	M	19.0	24.0	7.4	6.9	6.3	5.8
GSFT322512PH-1R0M-AE	1.00	M	26.0	30.0	6.6	5.8	5.7	5.2
GSFT322512PH-2R2M-AE	2.20	M	58.0	70.0	4.9	4.4	4.2	3.7
GSFT322512PH-3R3M-AE	3.30	M	75.0	95.0	3.5	3.1	3.2	2.8
GSFT322512PH-4R7M-AE	4.70	M	115.0	135.0	2.9	2.5	2.5	2.0

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

* **Inductance Tolerance :** M = +/-20%

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

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

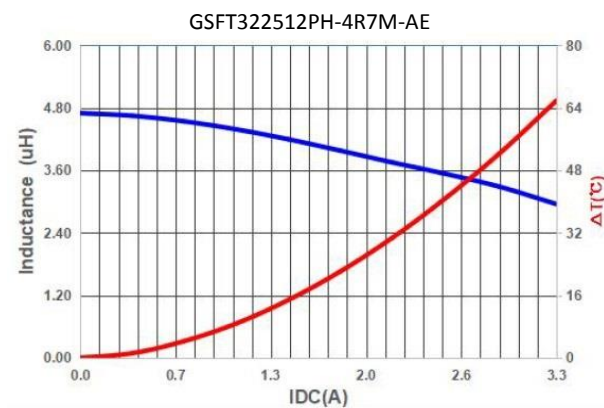
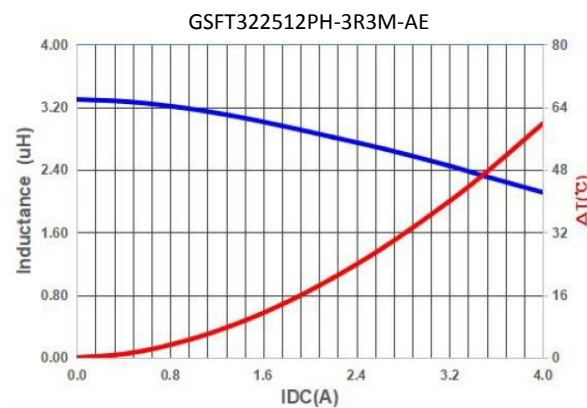
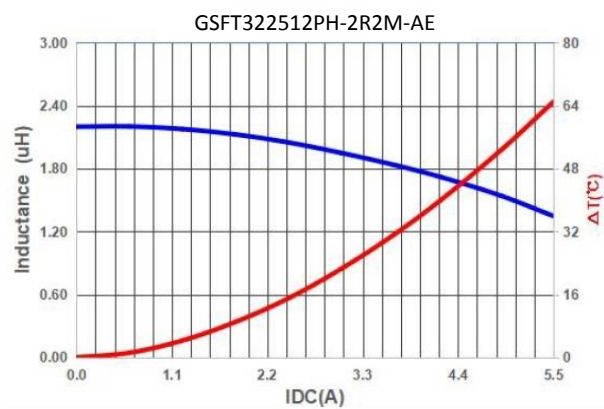
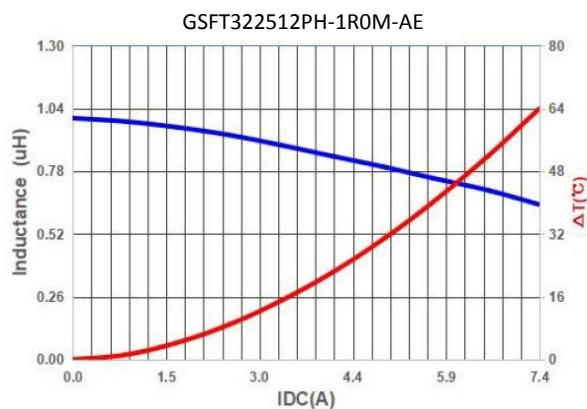
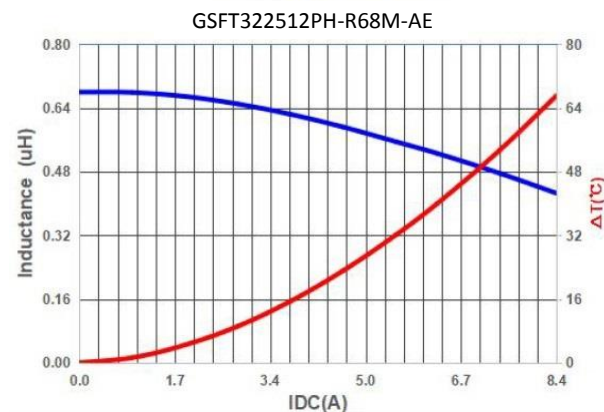
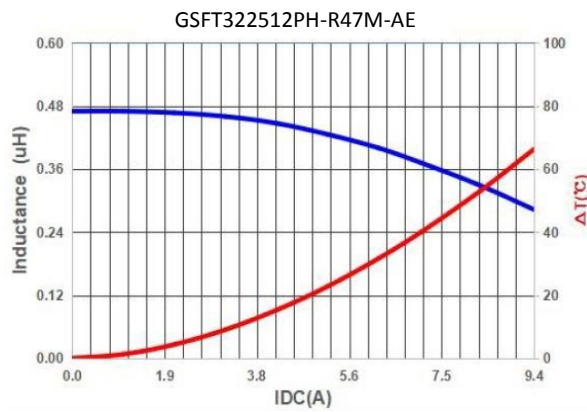
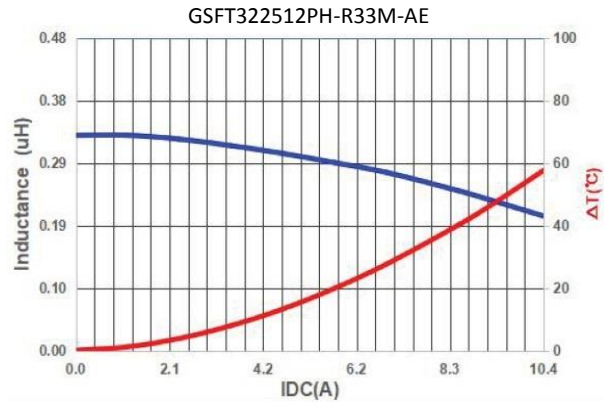
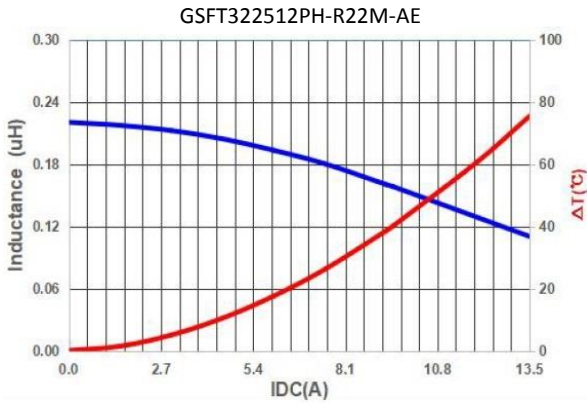
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC:** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322512PH-SERIES-AE

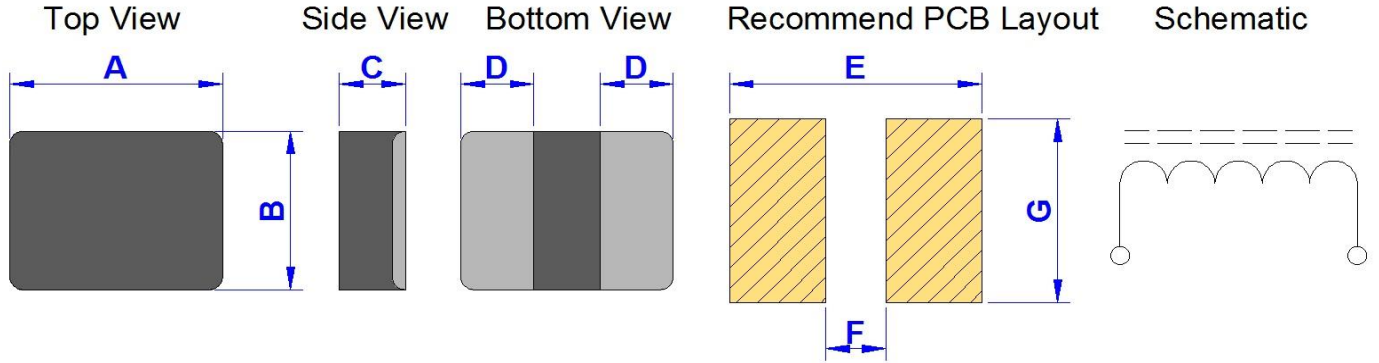
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322520P-SERIES-AE

Dimension [mm] :



Size Code	A (+/-0.3)	B (+/-0.3)	C (+/-0.2)	D (+/-0.3)	E (Ref.)	F (Ref.)	G (Ref.)
322520	3.2	2.5	1.8	1.1	3.7	0.7	2.8

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT322520P-R33M-AE	0.33	M	8.00	9.60	11.0	10.0	8.5	8.0
GSFT322520P-R47M-AE	0.47	M	9.30	11.20	9.0	8.0	8.0	7.5
GSFT322520P-R68M-AE	0.68	M	13.30	16.00	8.0	7.0	7.0	6.4
GSFT322520P-1R0M-AE	1.00	M	18.30	22.00	7.5	6.2	6.2	5.8
GSFT322520P-1R5M-AE	1.50	M	25.80	31.00	6.0	5.0	5.3	4.8
GSFT322520P-2R2M-AE	2.20	M	38.00	46.00	5.0	4.5	3.7	3.2
GSFT322520P-3R3M-AE	3.30	M	56.00	65.00	4.2	3.7	3.2	2.7
GSFT322520P-4R7M-AE	4.70	M	90.00	98.00	3.4	2.9	2.8	2.4

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

* **Inductance Tolerance :** M = +/-20%

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

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

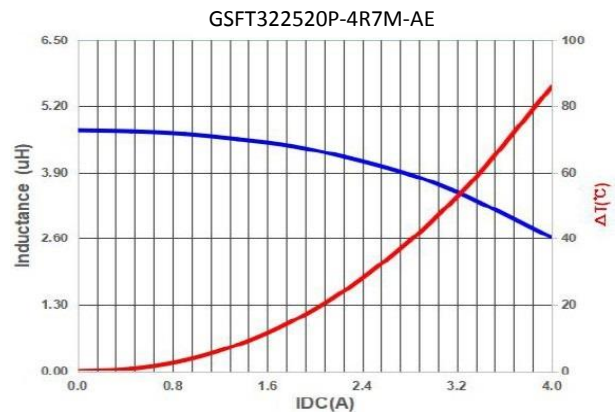
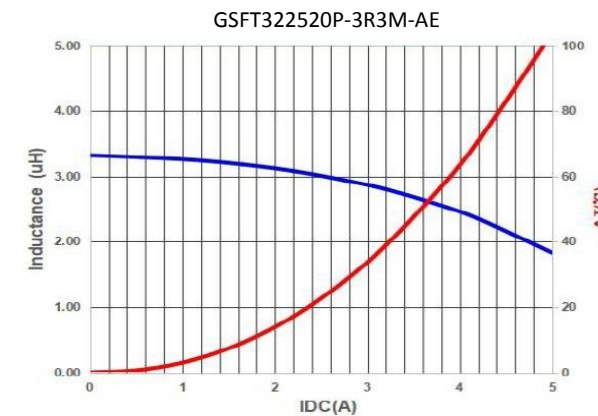
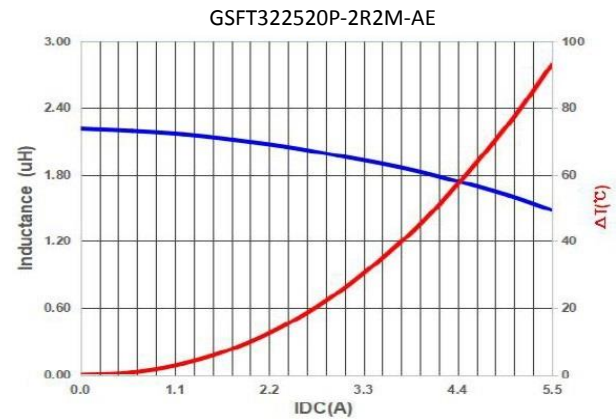
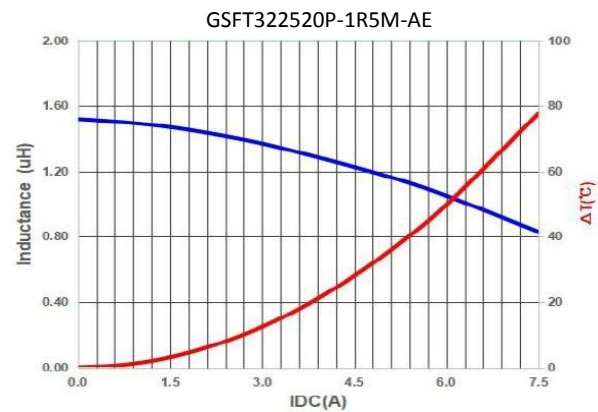
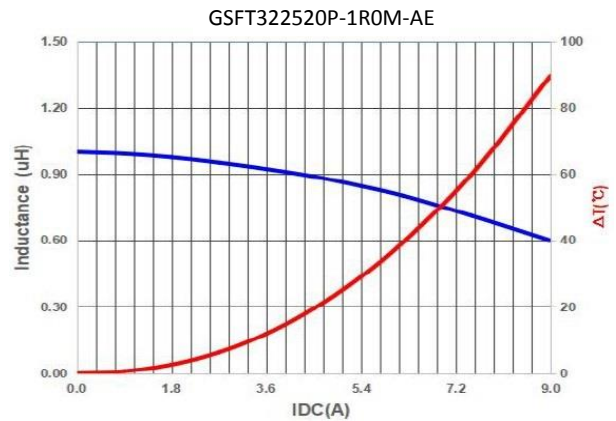
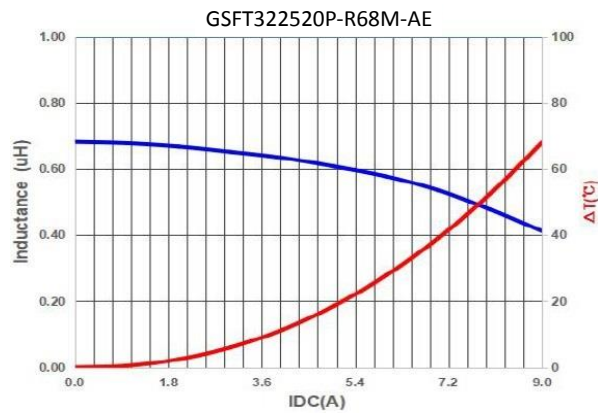
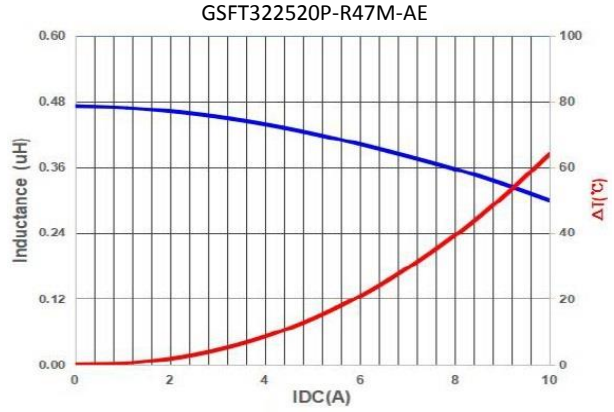
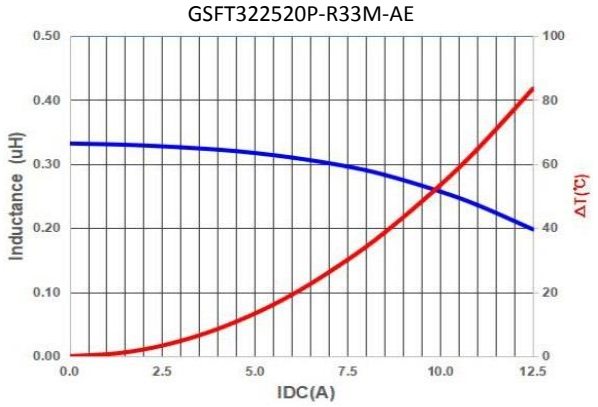
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT322520P-SERIES-AE

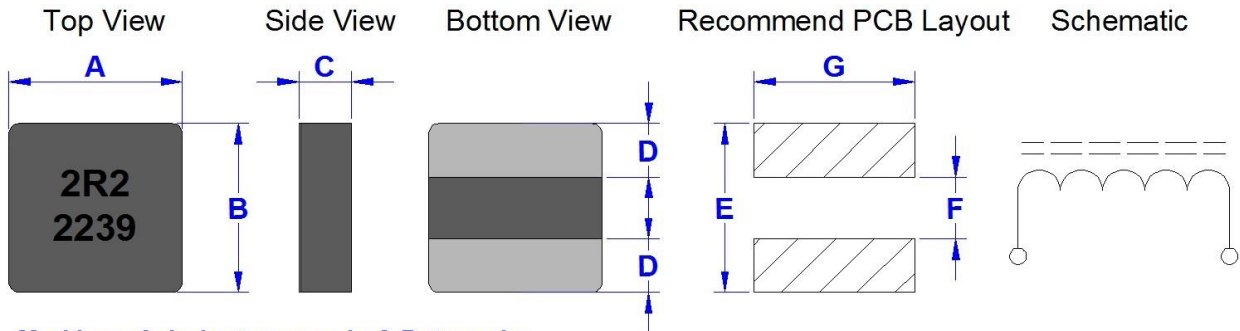
Typical Performance Curves :



Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R0	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4012P-SERIES-AE

Dimension [mm] :



Marking : A. Inductance code & Date code

(1) Year ex. 2022 = 22

(2) Weekly serial number 01 ~ 52

Size Code	A (+/-0.30)	B (+/-0.30)	C (+/-0.20)	D (+/-0.30)	E (Ref.)	F (Ref.)	G (Ref.)
4012	4.10	4.10	1.00	1.30	4.50	1.20	4.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT4012P-2R2M-AE	2.20	M	40.00	48.00	5.5	5.0	5.0	4.5
GSFT4012P-3R3M-AE	3.30	M	60.00	72.00	3.8	3.3	3.4	3.1
GSFT4012P-4R7M-AE	4.70	M	85.00	100.00	3.5	3.0	3.1	2.8

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

* **Inductance Tolerance :** M = +/-20%

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

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

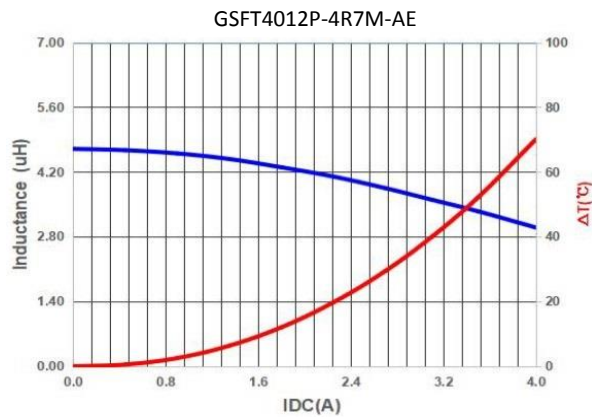
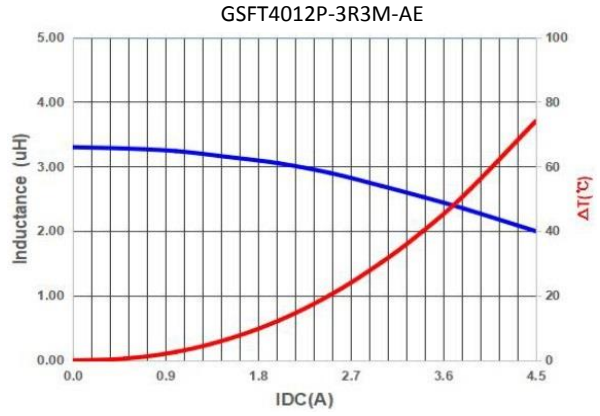
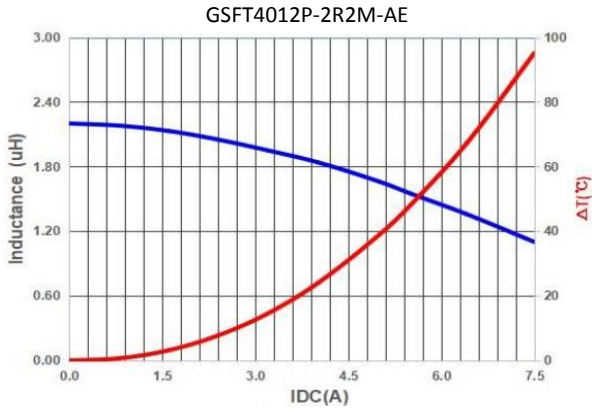
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4012P-SERIES-AE

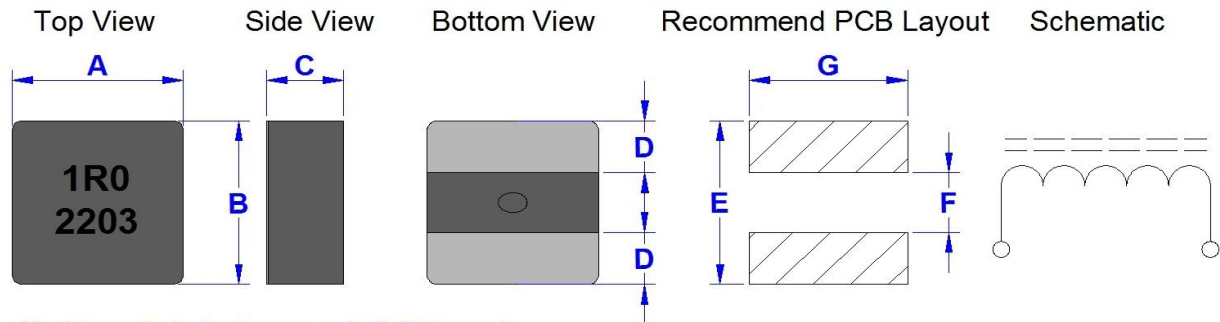
Typical Performance Curves :



Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R0	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4020PL-SERIES-AE

Dimension [mm] :



Marking : A. Inductance code & Date code
(1) Year ex. 2022 = 22
(2) Weekly serial number 01 ~ 52

Size Code	A (+/-0.2)	B (+/-0.2)	C (+/-0.15)	D (+/-0.3)	E(Ref.)	F(Ref.)	G(Ref.)
4020PL	4.10	4.10	1.85	1.30	4.30	1.10	4.30

Electrical Characteristics :

Part No.	Inductance (uH)	DCR (m Ohm)		Isat (A)				Irms (A) Typ.		ACR (m Ohm) @1MHz
		Typ.	Max.	Typ.1	Typ.2	Typ.3	Max.	20°C	40°C	
GSFT4020PL-R47M-AE	0.47	3.60	4.40	5.8	9.2	13.0	12.3	10.7	13.2	62.0 Max.
GSFT4020PL-R68M-AE	0.68	4.50	5.50	4.5	7.7	11.5	10.2	9.5	11.8	85.0 Max.
GSFT4020PL-1R0M-AE	1.0	6.50	8.00	4.0	6.3	9.2	8.3	7.9	9.8	118.0 Max.
GSFT4020PL-1R2M-AE	1.2	7.50	9.50	2.5	4.5	5.7	5.5	7.5	9.2	142.0 Max.

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

* **Inductance Tolerance :** M = +/-20%

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

* **Isat - Typ.1 :** Saturated Current measured at the point of L drop approximately 10%

Isat - Typ.2 : Saturated Current measured at the point of L drop approximately 20%

Isat - Typ.3 : Saturated Current measured at the point of L drop approximately 30%

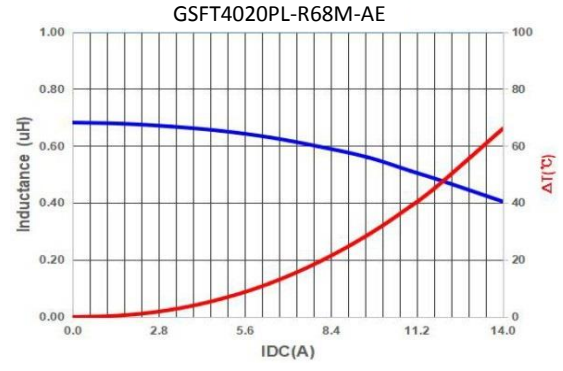
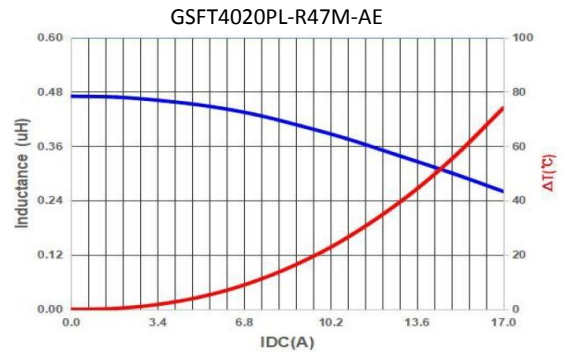
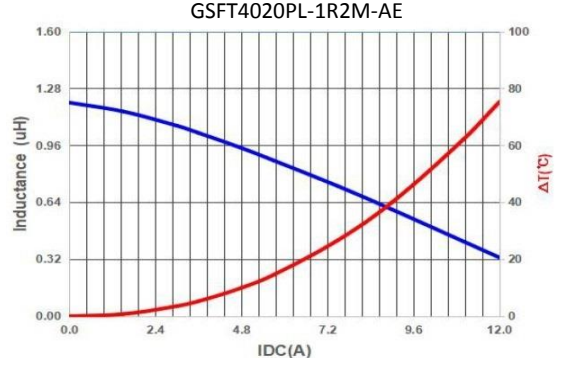
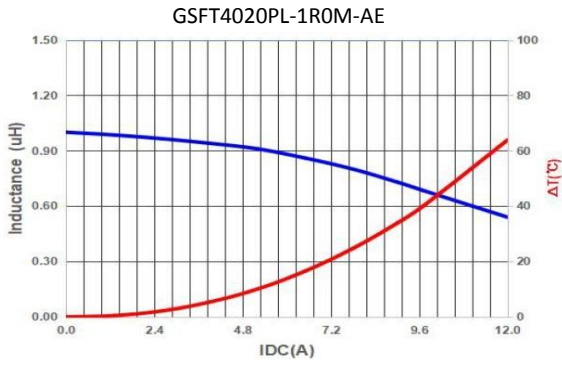
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component,PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors , Over voltage may cause components failure, high temperature,and burn-out , User needs to verify for appropriate usage. in the end application.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4020PL-SERIES-AE

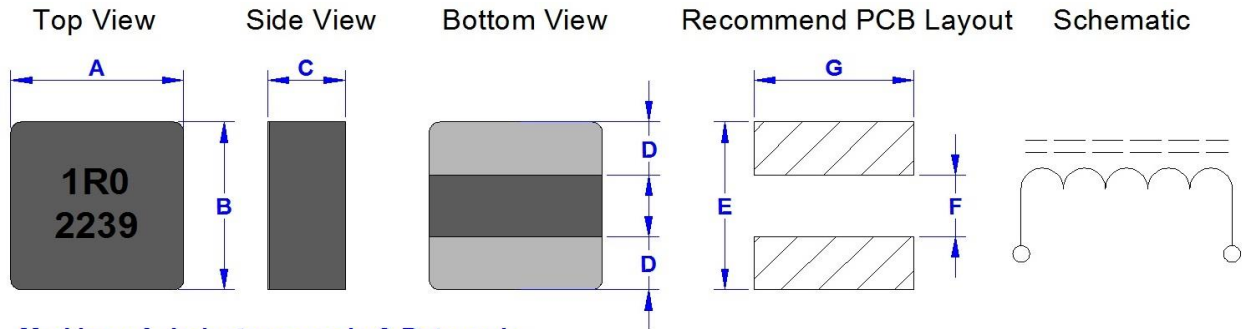
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4020PS-SERIES-AE

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2022 = 22
 (2) Weekly serial number 01 ~ 52

Size Code	A (+/-0.20)	B (+/-0.20)	C (+/-0.20)	D (+/-0.30)	E (Ref.)	F (Ref.)	G (Ref.)
4020	4.10	4.10	1.80	1.30	4.50	1.20	4.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT4020PS-R33M-AE	0.33	M	3.30	4.00	18.0	16.0	17.0	15.0
GSFT4020PS-R47M-AE	0.47	M	4.50	5.40	16.0	14.0	16.0	14.0
GSFT4020PS-R68M-AE	0.68	M	5.50	6.60	13.0	11.0	13.0	11.0
GSFT4020PS-1R0M-AE	1.00	M	8.20	9.00	11.0	9.5	12.0	10.0
GSFT4020PS-1R5M-AE	1.50	M	12.50	15.00	8.5	7.6	10.0	9.0
GSFT4020PS-2R2M-AE	2.20	M	17.50	21.00	7.2	6.5	9.0	8.0

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

* **Inductance Tolerance :** M = +/-20%

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

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

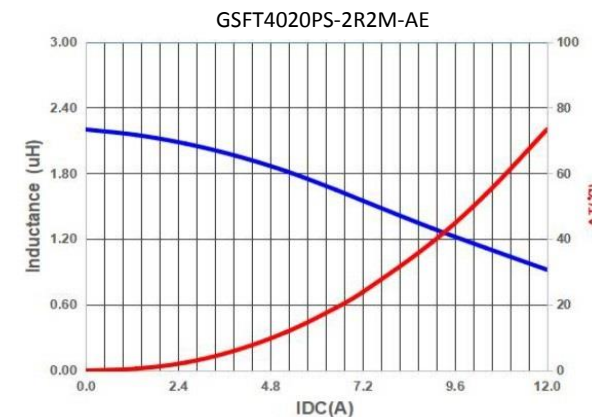
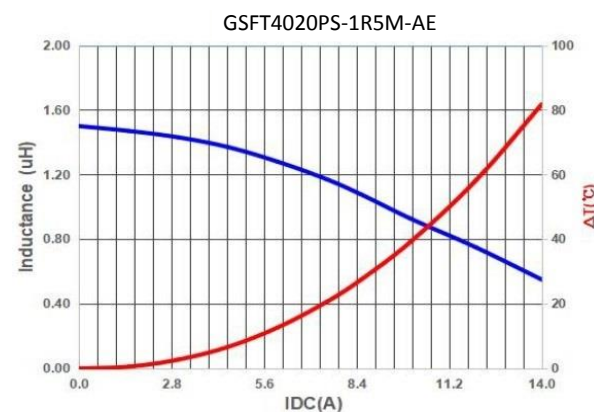
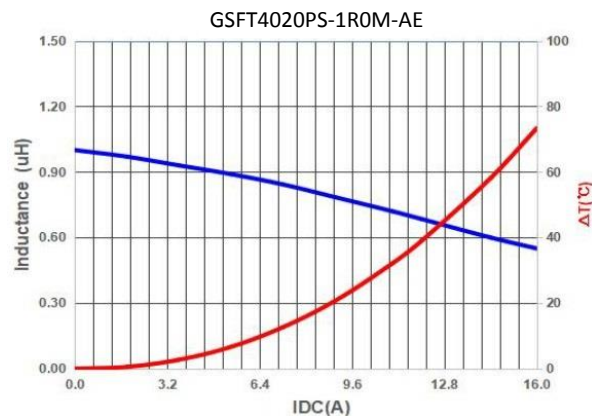
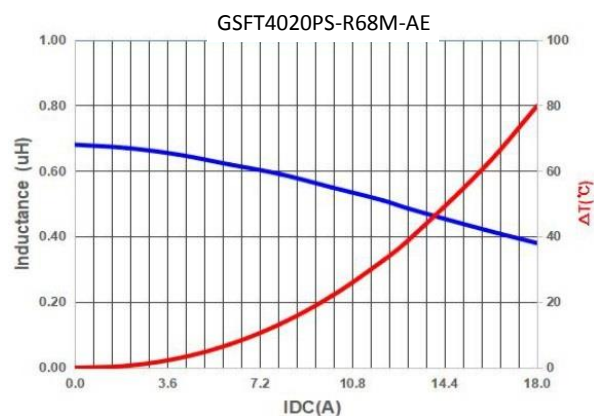
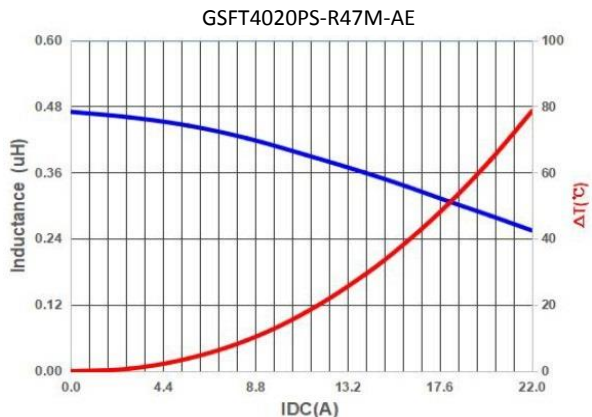
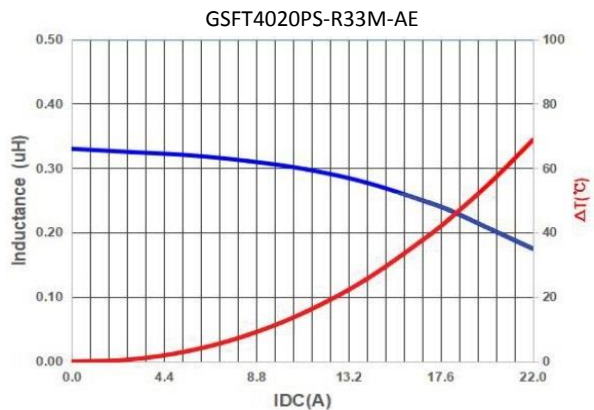
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4020PS-SERIES-AE

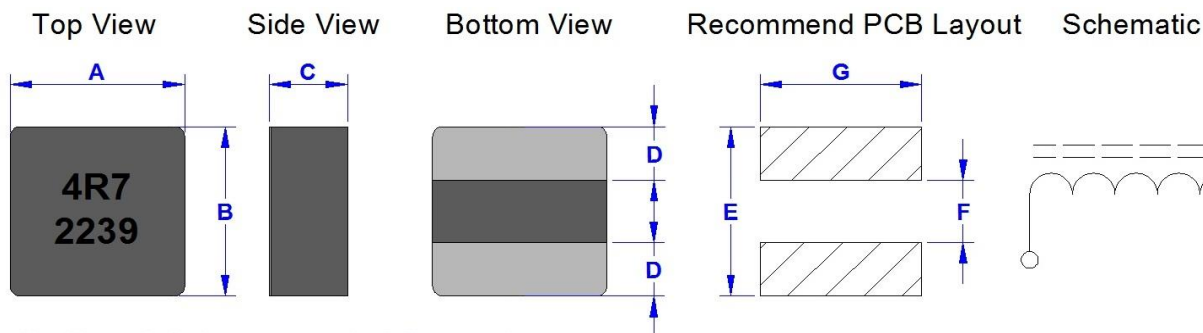
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT4030PS-SERIES-AE

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2022 = 22
 (2) Weekly serial number 01 ~ 52

Size Code	A (+/-0.20)	B (+/-0.20)	C (+/-0.20)	D (+/-0.30)	E (Ref.)	F (Ref.)	G (Ref.)
4030	4.20	4.20	2.80	1.30	4.50	1.20	4.50

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT4030PS-3R3M-AE	3.30	M	17.20	20.70	7.5	6.5	10.0	9.0
GSFT4030PS-4R7M-AE	4.70	M	27.00	32.40	5.8	5.1	6.6	5.9

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

* **Inductance Tolerance :** M = +/-20%

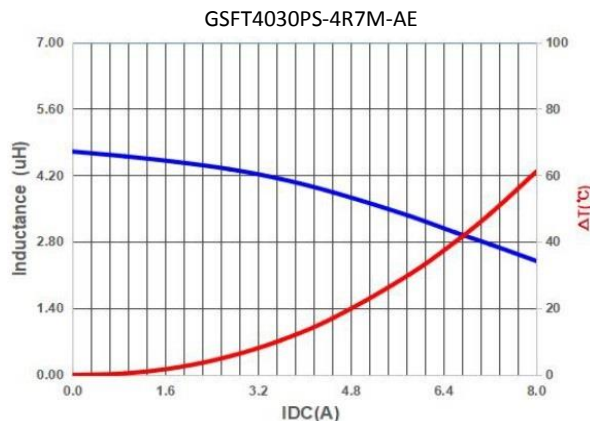
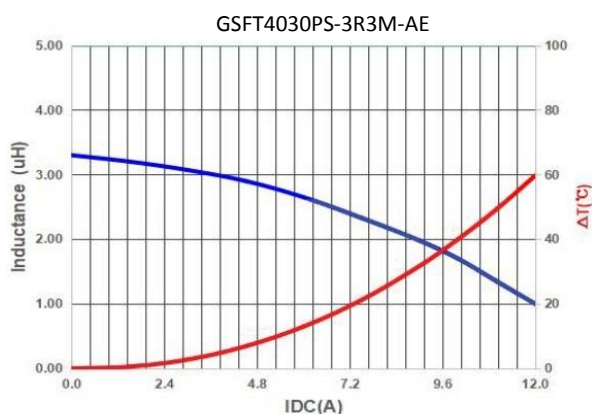
* **Irms :** Rated Current Loading when temperature rise approximately 40°C

* **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.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

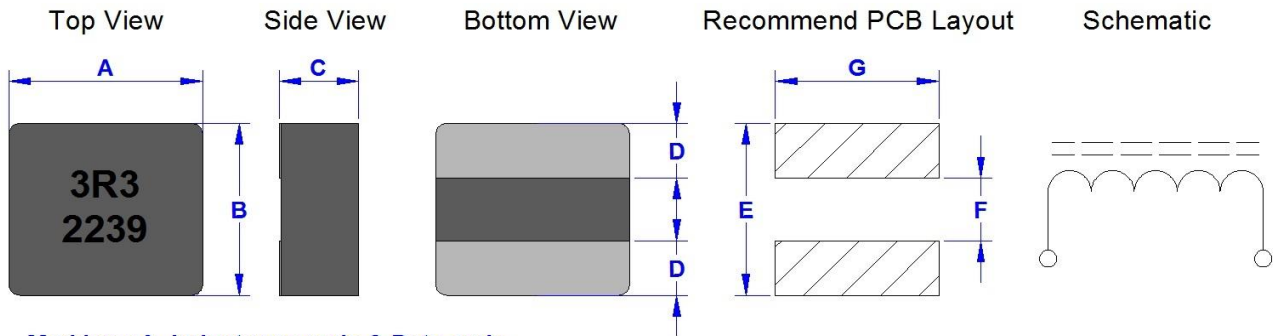
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT5030PS-SERIES-AE

Dimension [mm] :



Marking : A. Inductance code & Date code
 (1) Year ex. 2022 = 22
 (2) Weekly serial number 01 ~ 52

Size Code	A (+/-0.20)	B (+/-0.20)	C (+/-0.20)	D (+/-0.30)	E (Ref.)	F (Ref.)	G (Ref.)
5030	5.50	5.30	2.80	1.80	5.60	1.30	6.00

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	DCR (m Ohm)		Isat (A)		Irms (A)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSFT5030PS-R15M-AE	0.15	M	0.74±5%		45.0	41.0	38.0	35.0
GSFT5030PS-R20M-AE	0.20	M	1.30	1.60	31.0	28.0	26.0	23.0
GSFT5030PS-R33M-AE	0.33	M	1.70	2.10	28.0	25.0	23.0	21.0
GSFT5030PS-R36M-AE	0.36	M	1.80	2.20	27.0	24.0	22.0	20.0
GSFT5030PS-R47M-AE	0.47	M	2.30	2.80	24.0	22.5	20.0	18.0
GSFT5030PS-R56M-AE	0.56	M	2.50	3.00	22.0	20.5	19.0	17.0
GSFT5030PS-R68M-AE	0.68	M	3.10	3.80	20.0	18.0	18.0	16.0
GSFT5030PS-R88M-AE	0.88	M	4.40	5.30	18.0	16.0	17.0	15.0
GSFT5030PS-1R0M-AE	1.00	M	4.50	5.40	17.0	15.0	16.0	14.0
GSFT5030PS-1R5M-AE	1.50	M	6.80	8.20	14.0	12.5	13.5	12.0
GSFT5030PS-2R0M-AE	2.00	M	8.50	10.20	12.5	10.5	12.0	10.0
GSFT5030PS-2R2M-AE	2.20	M	9.80	11.80	12.0	10.0	11.5	9.5
GSFT5030PS-3R0M-AE	3.00	M	11.80	14.20	10.0	9.0	10.0	9.0
GSFT5030PS-3R3M-AE	3.30	M	13.50	16.20	9.5	8.5	9.5	8.5

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

* **Inductance Tolerance :** M = +/-20%

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

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

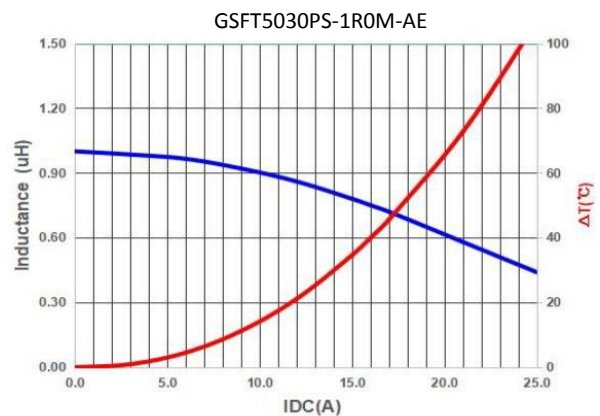
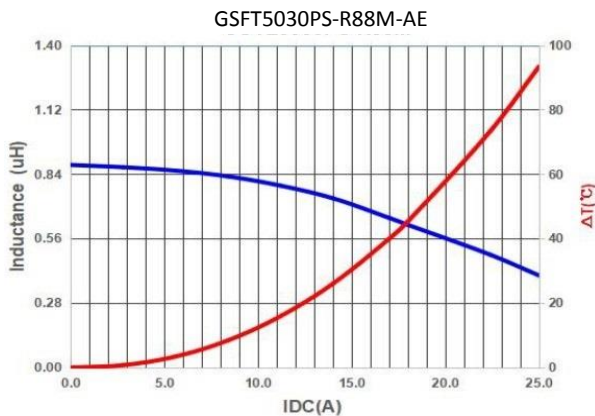
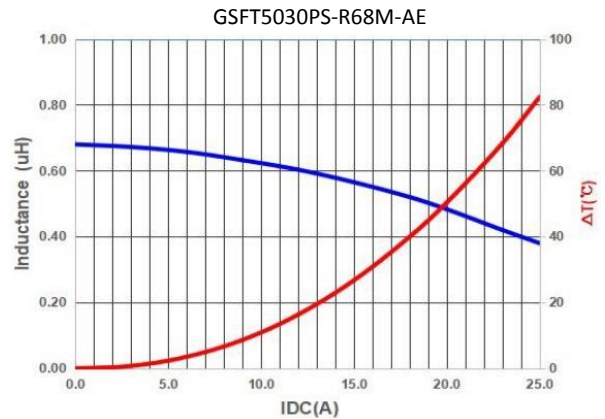
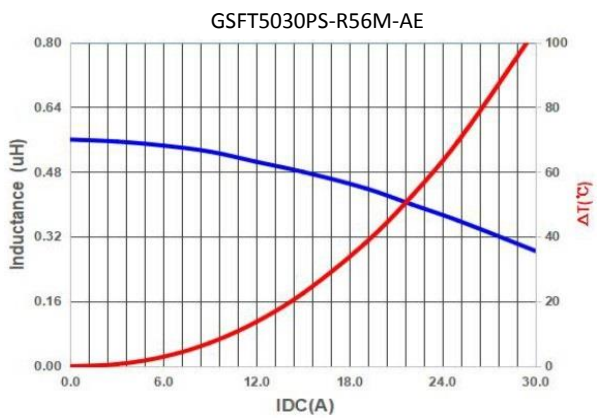
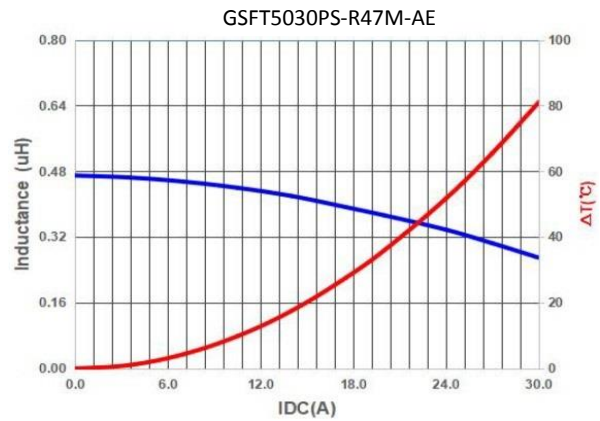
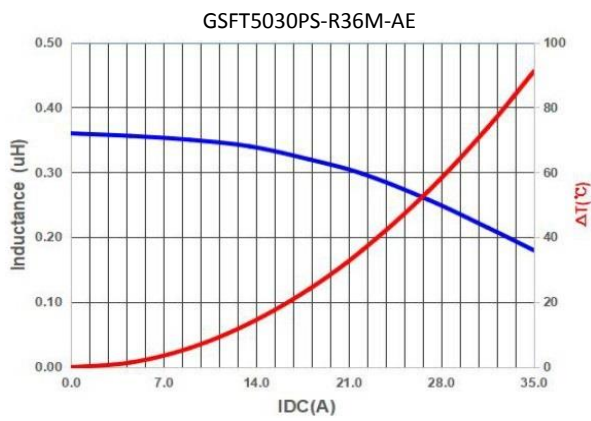
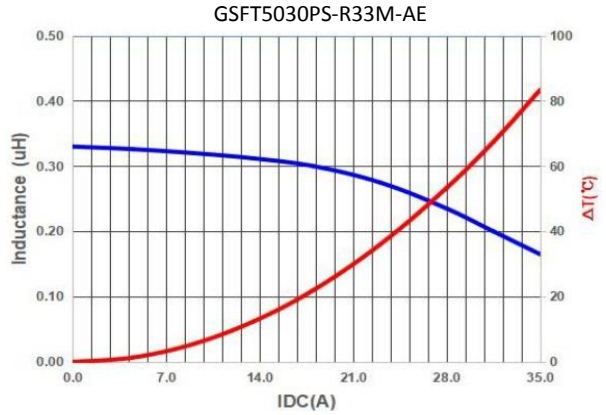
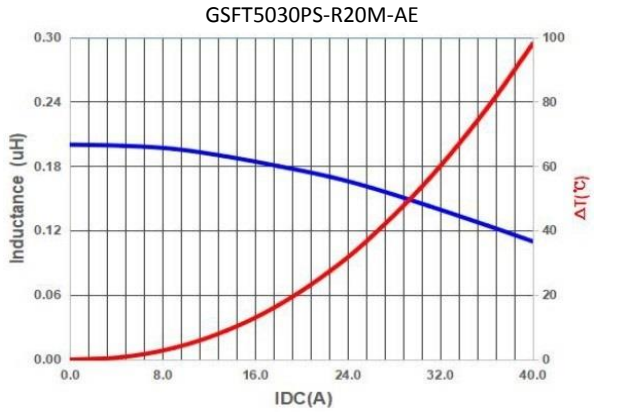
* **The part temperature (ambient + temp rise):** should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

* **Rated voltage 25V DC :** The application of voltage depends on many factors, Over voltage may cause components failure, high temperature, and burn-out, User needs to verify for appropriate usage.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT5030PS-SERIES-AE

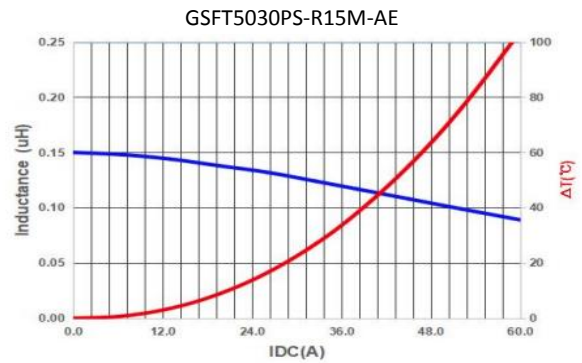
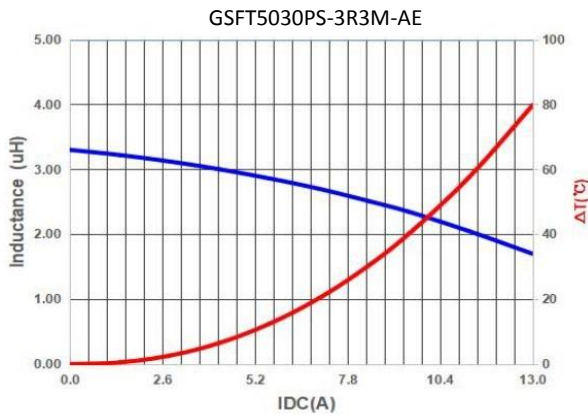
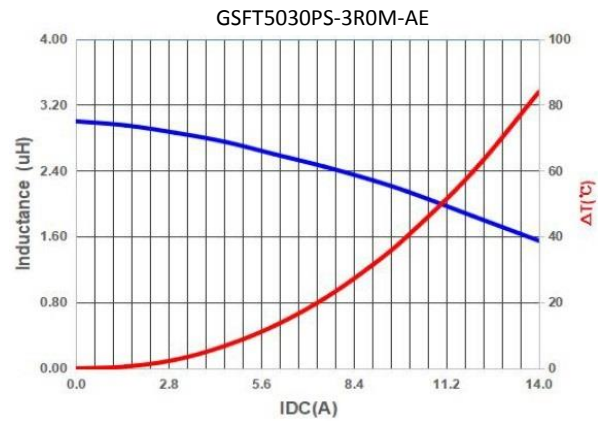
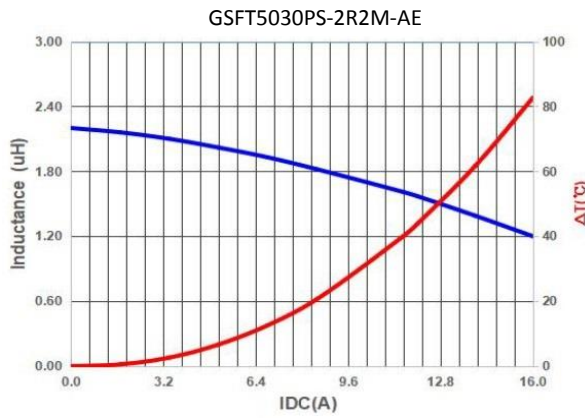
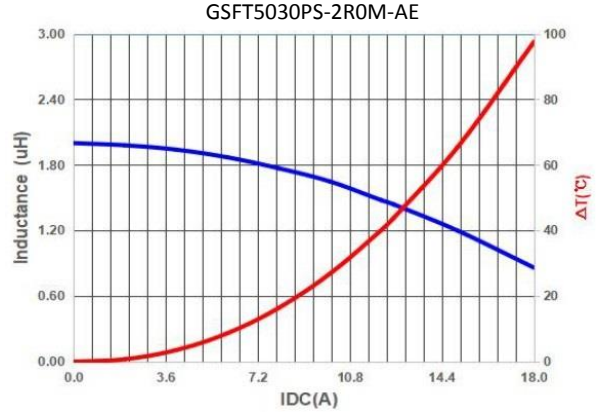
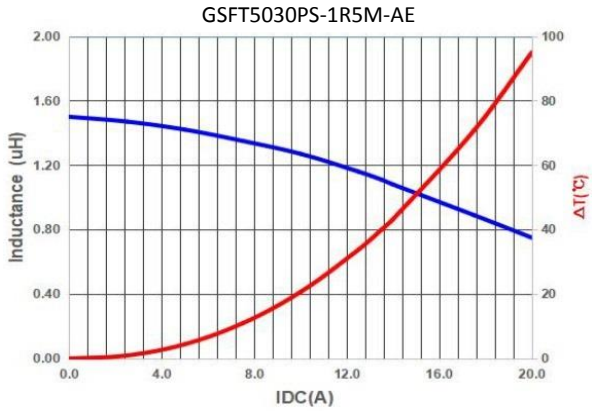
Typical Performance Curves :



Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R0	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

GSFT5030PS-SERIES-AE

Typical Performance Curves :



Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R2	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	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 :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R2	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

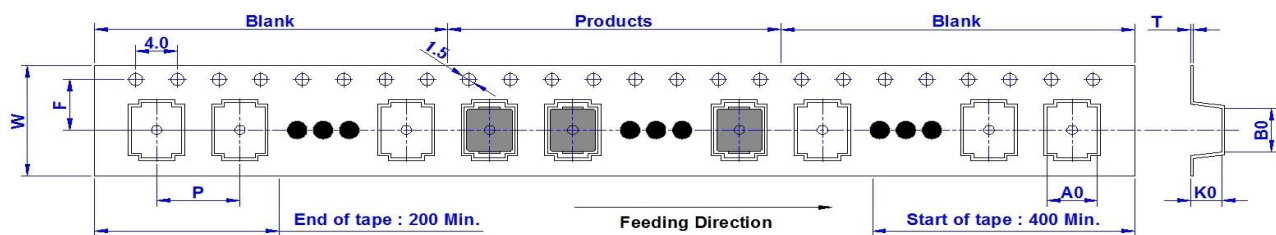
Reliability for automotive products :

No	Item	Test Conditions	Specification
1	External Visual MIL-STD-883 Method 2009	Inspect device construction and workmanship. Electrical test not required.	There is no change for appearance (electrode did not fall off , loose , no breakage , ferrite core did not break , damage)
2	Physical Dimension JESD22 Method JB-100	Verify physical dimensions to the device specification.	For Spec.
3	Thermal Shock MIL-STD-202 Method 107	Temperature : -40±2 °C ~ +125±2 °C Max transfer time : 20 s. Dwell time : 15 minutes. Air - Air	There is no change for appearance (electrode did not fall off , loose , no breakage , ferrite core did not break , damage) Inductor value / resistance change rate ±10%.
4	Humidity Resistance MIL-STD-202 Method 103	Humidity : 85% RH Temperature : 85 °C Test time : 1000 Hours	There is no change for appearance (electrode did not fall off , loose , no breakage , ferrite core did not break , damage) Inductor value / resistance change rate ±10%.
5	High Temperature MIL-STD-202 Method 108	Temperature : 125±2 °C Test time : 1000 Hours	There is no change for appearance (electrode did not fall off , loose , no breakage , ferrite core did not break , damage) Inductor value / resistance change rate ±10%.
6	Temperature and Humidity Cycle JESD22 Method JA-104	Temperature : -40 °C ~ +125 °C Cycles : 1000	There is no change for appearance (electrode did not fall off , loose , no breakage , ferrite core did not break , damage) Inductor value / resistance change rate ±10%.
7	Operational Life MIL-PRF-27	Temperature : 125 °C Load : Allowed DC current Test time : 1000 Hours	No short circuit , open circuit.
8	Vibration MIL-STD-202 Method 204	5 g's for 20 minutes , 12 cycles each of 3 orientations. Test from 10Hz ~ 2000Hz	No bad phenomenon.
9	Mechanical Shock MIL-STD-202 Method 213	Figure 1 of Method 213 SMD : Condition C.	No bad phenomenon.
10	Resistance to Soldering Head MIL-STD-202 Method 210	Condition B No pre-heat of samples. Temperature 250 up / 5 s. Temperature 183 up / 90 ~ 120 s.	Tin solder have to cover over 90% area.
11	Solderability J-STD-002	a. Method B , 4 Hours @ 155 °C dry heat @ 235 °C b. Method B @ 215 °C category 3 c. Method D @ 260 °C category 3	No change and transform form the appearance.

Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R2	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

Packaging Information :

Tape Dimension Schematic Diagram (mm):

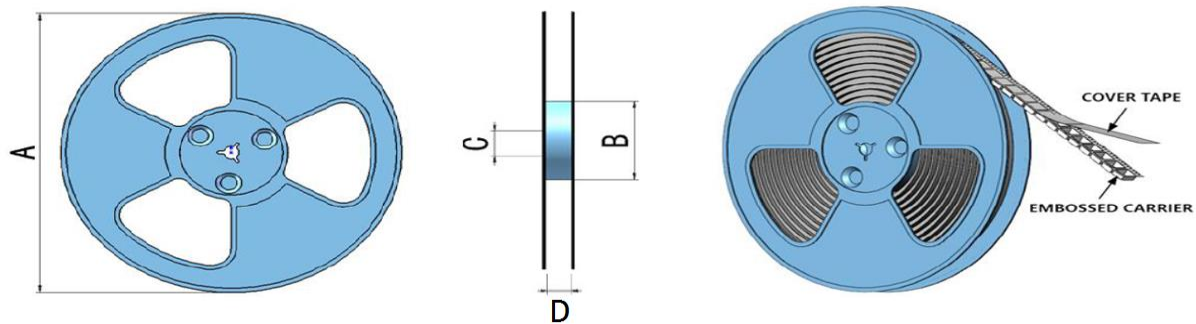


SIZE/mm	W (+/-0.3)	P (+/-0.1)	A0 (+/-0.1)	B0 (+/-0.1)	K0 (+/-0.1)	T (+/-0.1)	F (+/-0.1)
141265PH	8.0	4.0	1.5	1.7	0.8	0.25	3.5
141208PH	8.0	4.0	1.5	1.7	1.0	0.25	3.5
160808PH	8.0	4.0	1.1	1.9	1.0	0.25	3.5
201208PH	8.0	4.0	1.5	2.3	1.0	0.25	3.5
201210PH	8.0	4.0	1.5	2.3	1.2	0.25	3.5
201608PH	8.0	4.0	1.9	2.3	1.0	0.25	3.5
201610PH	8.0	4.0	1.9	2.3	1.2	0.25	3.5
201610P	8.0	4.0	2.0	2.5	1.2	0.23	3.5
201612P	8.0	4.0	2.0	2.5	1.35	0.23	3.5
252010PH	8.0	4.0	2.4	2.9	1.2	0.25	3.5
252010P	8.0	4.0	2.45	2.9	1.35	0.24	3.5
252012PH	8.0	4.0	2.4	2.9	1.4	0.25	3.5
252012P	8.0	4.0	2.45	2.9	1.35	0.24	3.5
322510P	8.0	4.0	2.9	3.6	1.4	0.22	3.5
322512PH	8.0	4.0	2.9	3.6	1.4	0.25	3.5
322512P	8.0	4.0	2.9	3.6	1.4	0.22	3.5
322520P	8.0	4.0	2.9	3.6	2.2	0.22	3.5
3012PL	12.0	8.0	3.5	3.5	1.4	0.35	5.5
4012P	12.0	8.0	4.5	4.5	1.5	0.35	5.5
4020PL	12.0	8.0	4.5	4.5	2.2	0.35	5.5
4020PS	12.0	8.0	4.5	4.5	2.2	0.35	5.5
4030PS	12.0	8.0	4.5	4.5	3.2	0.35	5.5
5030PS	12.0	8.0	6.0	5.8	3.3	0.35	5.5

Product Series :	GSFT	Brand :	GOTREND
File Version :	GSFT-SERIES-AE-V1R2	Editor :	Jerry Chen
Established Date :	2023.03.28	Description :	High Current Inductor
Latest Edit Date :	2023.09.25	Product Type :	<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

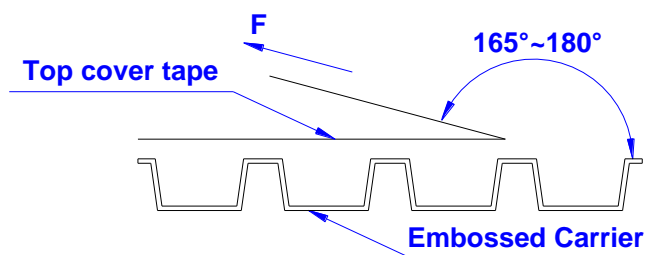
Packaging Information :

Reel Dimension Schematic Diagram (mm):



SIZE/mm	REEL SIZE	A (Typ.)	B (+/-2.0)	C (+/-0.5)	D (+/-2.0)	QTY / REEL
141265PH	7" × 8 mm	178	60	13	8.4	3000 PCS
141208PH	7" × 8 mm	178	60	13	8.4	3000 PCS
160808PH	7" × 8 mm	178	60	13	8.4	3000 PCS
201208PH	7" × 8 mm	178	60	13	8.4	3000 PCS
201210PH	7" × 8 mm	178	60	13	8.4	3000 PCS
201608PH	7" × 8 mm	178	60	13	8.4	3000 PCS
201610PH	7" × 8 mm	178	60	13	8.4	3000 PCS
201610P	7" × 8 mm	178	60	13	8.4	2000 PCS
201612P	7" × 8 mm	178	60	13	8.4	2000 PCS
252010PH	7" × 8 mm	178	60	13	8.4	3000 PCS
252010P	7" × 8 mm	178	60	13	8.4	2000 PCS
252012PH	7" × 8 mm	178	60	13	8.4	3000 PCS
252012P	7" × 8 mm	178	60	13	8.4	2000 PCS
322510P	7" × 8 mm	178	60	13	8.4	2000 PCS
322512PH	7" × 8 mm	178	60	13	8.4	3000 PCS
322512P	7" × 8 mm	178	60	13	8.4	2000 PCS
322520P	7" × 8 mm	178	60	13	8.4	2000 PCS
3012PL	13" × 12 mm	330	100	13	12.4	4000 PCS
4012P	13" × 12 mm	330	100	13	12.4	4000 PCS
4020PL	13" × 12 mm	330	100	13	12.4	3000 PCS
4020PS	13" × 12 mm	330	100	13	12.4	3000 PCS
4030PS	13" × 12 mm	330	100	13	12.4	2000 PCS
5030PS	13" × 12 mm	330	100	13	12.4	2000 PCS

Tearing Off Force Schematic Diagram:



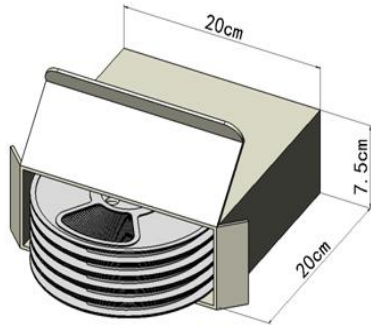
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11 standard).

Room Temp. (°C)	Room Humidity (%)	Room Atm. (hPa)	Tearing Speed (mm)
5 ~ 35	45 ~ 85	860 ~ 1060	300 +/-10%

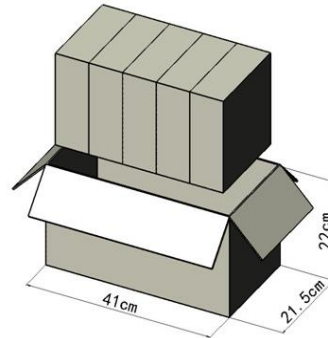
Product Series : GSFT	Brand : GOTREND
File Version : GSFT-SERIES-AE-V1R2	Editor : Jerry Chen
Established Date : 2023.03.28	Description : High Current Inductor
Latest Edit Date : 2023.09.25	Product Type : <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Customize

Packaging Information :

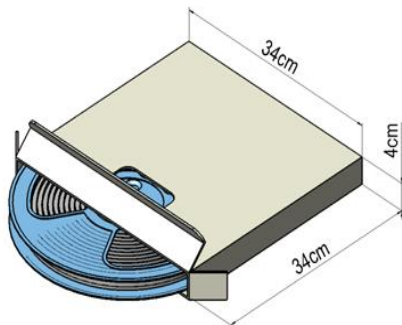
Box Package Schematic Diagram



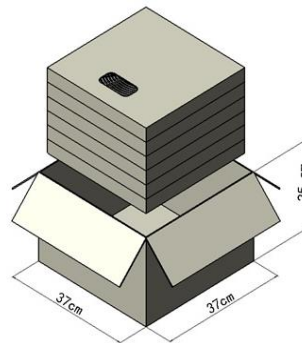
7" Small Box



7" Large Box



13" Small Box



13" Large Box

SIZE/mm	Reels in Small Box	Small Box in Large Box
141265PH	5(15000)	5(750000)
141208PH	5(15000)	5(750000)
160808PH	5(15000)	5(750000)
201208PH	5(15000)	5(750000)
201210PH	5(15000)	5(750000)
201608PH	5(15000)	5(750000)
201610PH	5(15000)	5(750000)
201610P	5(10000)	5(50000)
201612P	5(10000)	5(50000)
252010PH	5(15000)	5(75000)
252010P	5(10000)	5(50000)
252012PH	5(15000)	5(75000)
252012P	5(10000)	5(50000)
3012PL	2(8000)	5(40000)
322510P	5(10000)	5(50000)
322512PH	5(15000)	5(75000)
322512P	5(10000)	5(50000)
322520P	5(10000)	5(50000)
4012P	2(8000)	5(40000)
4020PL	2(6000)	5(30000)
4020PS	2(6000)	5(30000)
4030PS	2(2000)	5(10000)
5030PS	2(2000)	5(10000)