

Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

Version Information :

[illegible]

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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 :

- * High performance (Isat) realized by metal dust core.
- * Low loss realized with low DCR
- * Capable of corresponding 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	:	GSTV	7054	P	-	4R7	M	-	AG
-----		-----	-----	---		-----	---		---
ID	:	1	2	3		4	5		6

- 1 : GOTREND Series : GSTV
2 : Type Size Code : 7054 = 7.9 x 7.3 x 5.2 mm
3 : Pb free < 1000ppm
4 : Value : Inductance 4R7 = 4.7 uH
5 : Tolerance : M = +/-20%
6 : [AG] : Reliability is better than AEC-Q200 Grade 0 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 -55 ~ +165 °C (Including self - temperature rise)
- * Storage Temp 1. -10 ~ +45 °C , 50 ~ 60% RH (Product with taping)
2. -55 ~ +165 °C (On board)
- * Storage Life Time 6 Month (Less than 40 °C and 60% RH)



Attention & Caution :

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

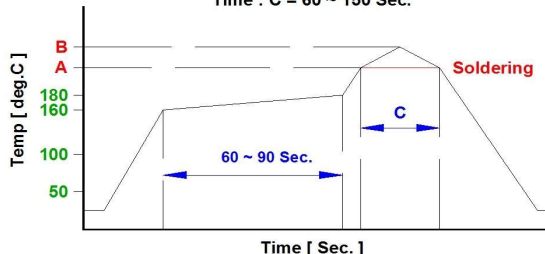


Test Condition :

- * 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

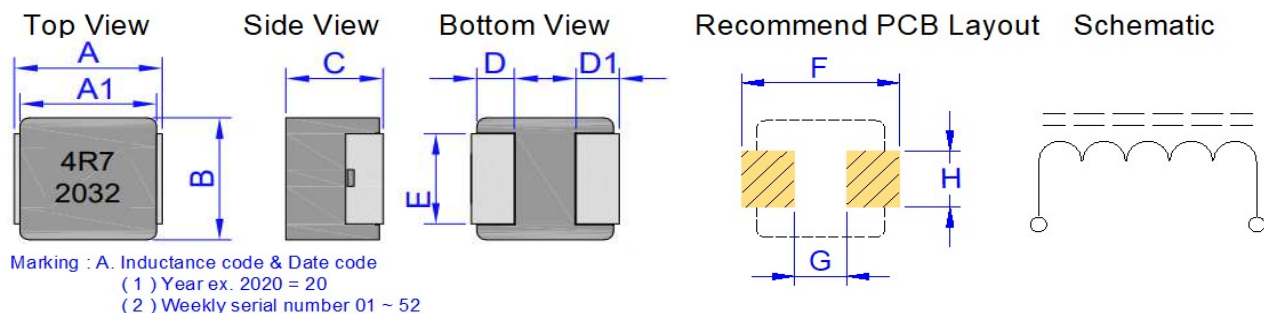
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SMD Power Inductor - GSTM Series Type								
Part Name	L (mm) Typ.	W (mm) Typ.	H (mm) Typ.	Inductance Range (uH) M=+/-20%	DCR (m Ohm) Max.	Isat (A) Typ.	Irms (A) Typ.	Page
GSTV5030P	5.5	5.25	2.8	0.68 ~ 15.0	2.0 ~ 12.0	1.9 ~ 11.7	8.5 ~ 190.0	5-6
GSTV6030P	7.1	6.6	2.8	0.47 ~ 22.0	2.4 ~ 19.0	2.5 ~ 19.0	3.4 ~ 16.5	7-8
GSTV7054P	7.9	7.3	5.2	1.5 ~ 100.0	2.0 ~ 17.0	1.6 ~ 19.0	6.3 ~ 357.0	9-11
GSTV1040P	11.0	10.0	3.8	0.47 ~ 47.0	3.2 ~ 34.0	3.6 ~ 31.0	1.42 ~ 165.0	12-15
GSTV1054P	11.0	10.0	5.1	1.0 ~ 68.0	3.5 ~ 30.0	4.8 ~ 37.0	2.3 ~ 150.0	16-19
GSTV1265P	13.6	12.6	6.2	0.68 ~ 47.0	4.3 ~ 36.5	5.1 ~ 36.5	1.35 ~ 89.0	20-22

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GSTV5030P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.3)	B (±0.2)	C (±0.2)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV5030P	5.50	4.90	5.25	2.80	1.10	1.30	3.00
	F (Ref.)	G (Ref.)	H (Ref.)				
	6.70	2.10	3.50				

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV5030P-R68M-AG	0.68	M	12.0	11.0	11.7	10.0	8.5	9.7
GSTV5030P-1R0M-AG	1.0	M	10.5	9.5	8.0	6.7	10.0	11.5
GSTV5030P-1R5M-AG	1.5	M	8.5	7.6	6.5	5.7	15.4	17.7
GSTV5030P-2R2M-AG	2.2	M	7.5	6.6	5.8	4.8	20.0	23.0
GSTV5030P-3R3M-AG	3.3	M	6.0	5.5	5.4	4.5	31.0	36.0
GSTV5030P-4R7M-AG	4.7	M	5.2	4.4	4.5	4.0	49.0	57.0
GSTV5030P-5R6M-AG	5.6	M	4.4	3.8	4.3	3.8	61.0	71.0
GSTV5030P-6R8M-AG	6.8	M	4.0	3.5	4.0	3.5	72.0	83.0
GSTV5030P-100M-AG	10.0	M	3.0	2.5	2.4	2.0	97.0	111.0
GSTV5030P-150M-AG	15.0	M	2.5	2.0	2.2	1.9	165.0	190.0

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

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

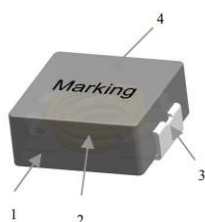
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* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value whith is Irms or Isat

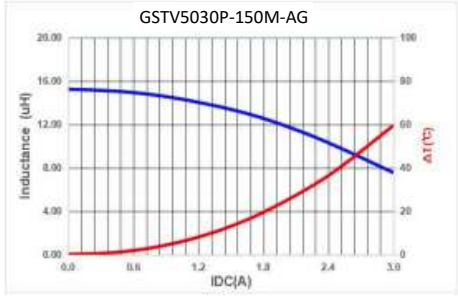
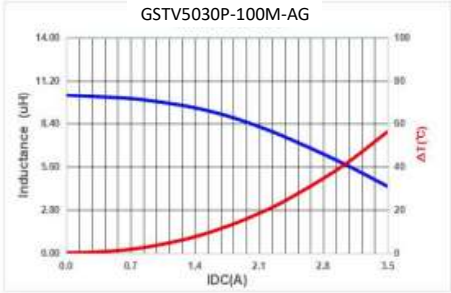
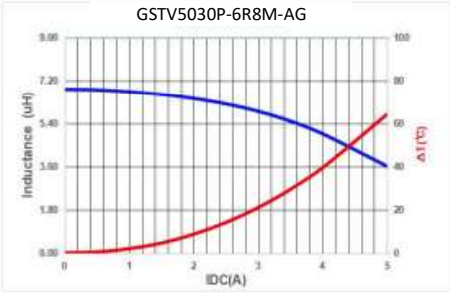
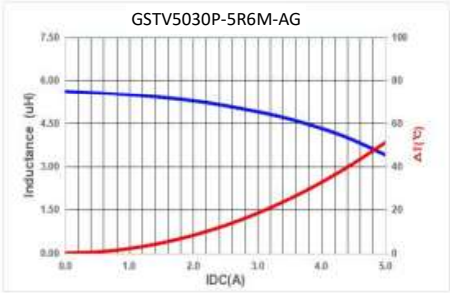
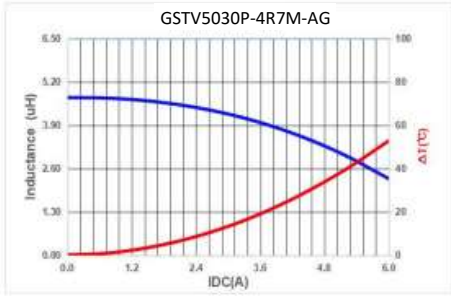
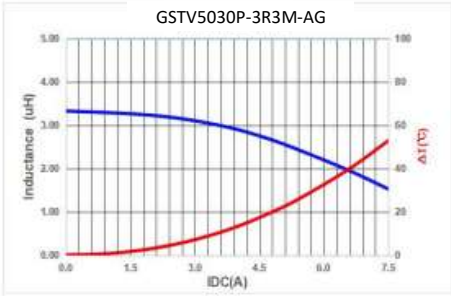
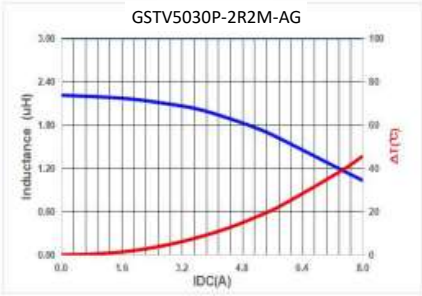
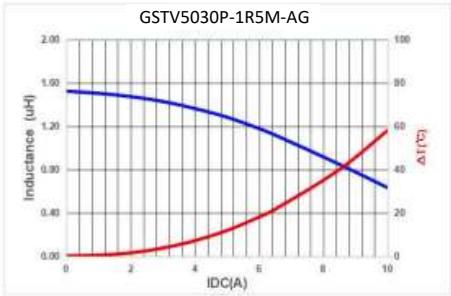
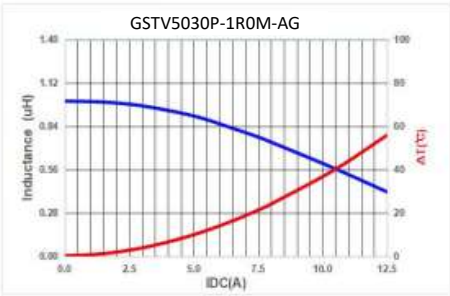
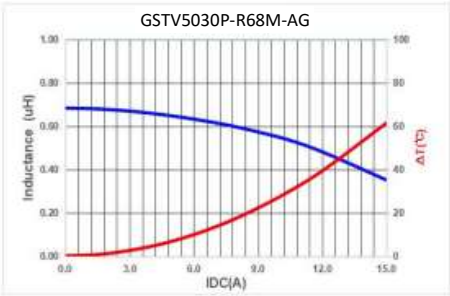
Material List :



NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

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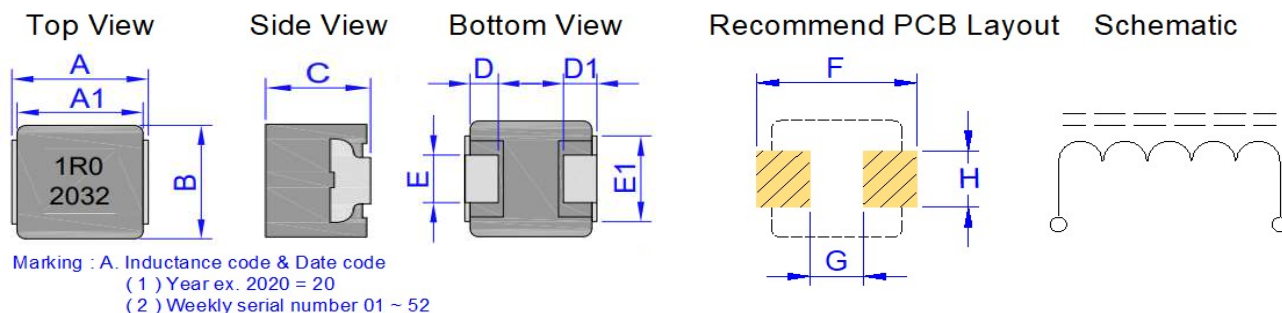
Typical Performance Curves:



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GSTV6030P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.2)	B (±0.2)	C (±0.2)	D (±0.3)	D1 (±0.3)	E (±0.2)
GSTV6030P	7.10	6.60	6.60	2.80	1.60	1.80	3.00
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	4.30	8.40	2.70	3.40			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV6030P-R47M-AG	0.47	M	19.0	17.0	19.0	17.0	3.4	3.74
GSTV6030P-1R0M-AG	1.0	M	14.0	12.5	14.0	12.5	6.0	6.6
GSTV6030P-1R5M-AG	1.5	M	11.5	10.0	13.0	12.0	10.6	11.7
GSTV6030P-2R2M-AG	2.2	M	9.0	8.0	10.5	9.5	15.0	16.5
GSTV6030P-3R3M-AG	3.3	M	7.8	6.6	9.5	8.1	22.0	24.2
GSTV6030P-4R7M-AG	4.7	M	6.4	5.5	7.2	6.2	29.0	32.0
GSTV6030P-6R8M-AG	6.8	M	5.2	4.5	6.1	5.5	42.0	46.2
GSTV6030P-8R2M-AG	8.2	M	4.8	4.0	5.6	4.5	49.0	54.0
GSTV6030P-100M-AG	10.0	M	4.2	3.7	4.7	4.0	63.0	69.3
GSTV6030P-150M-AG	15.0	M	3.7	3.2	4.0	3.2	100.0	110.0
GSTV6030P-220M-AG	22.0	M	2.9	2.4	3.0	2.5	150.0	165.0

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

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

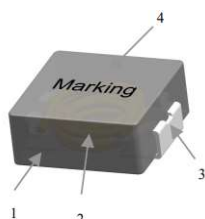
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* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value which is Irms or Isat

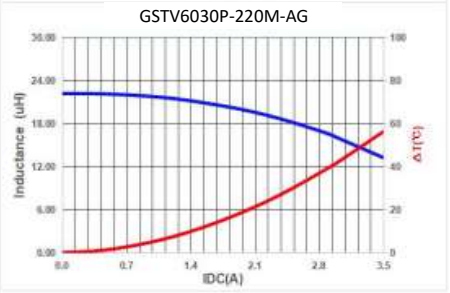
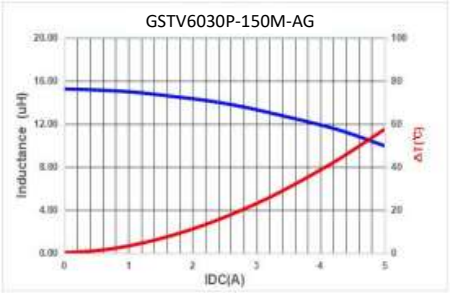
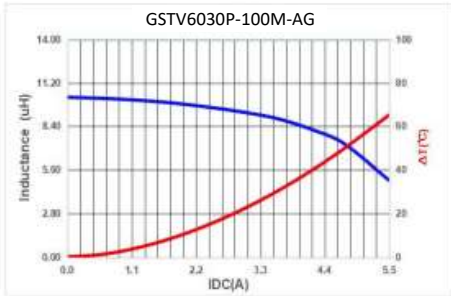
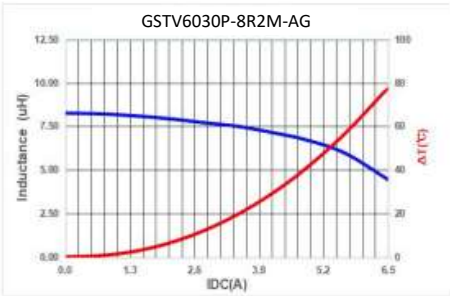
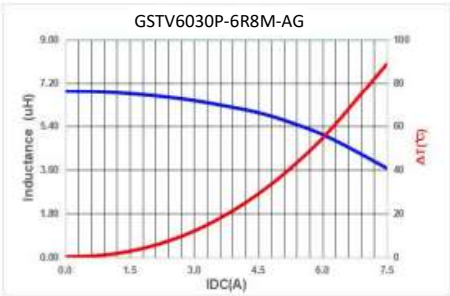
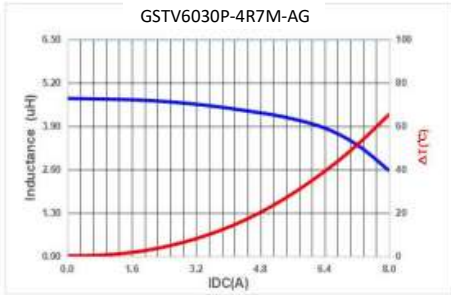
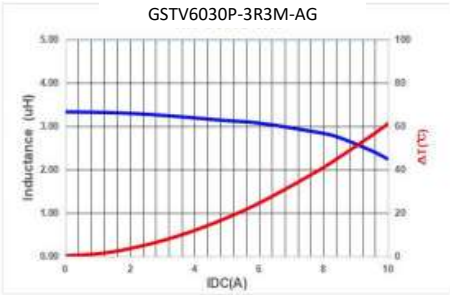
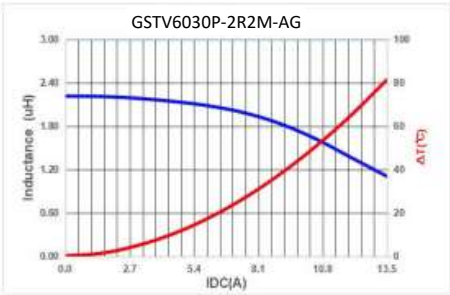
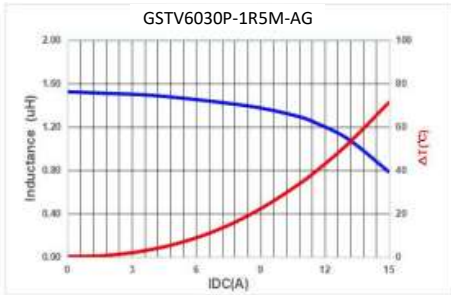
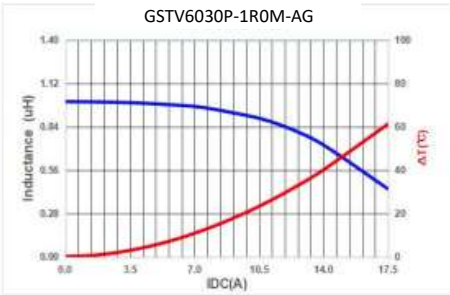
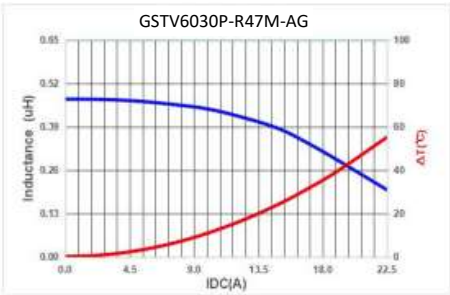
Material List :



NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

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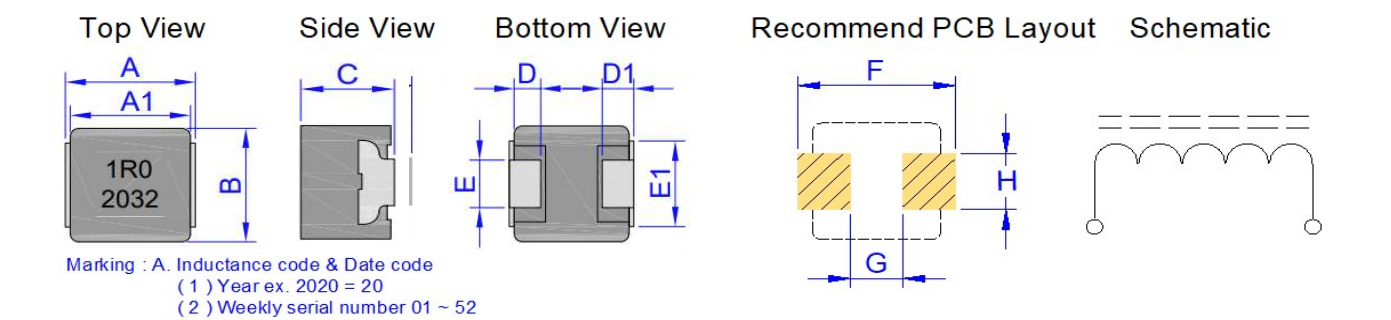
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GSTV7054P-SERIES-AG

Dimension [mm] :



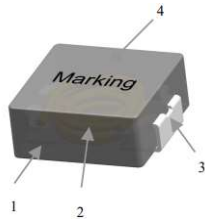
Size	A (±0.3)	A1 (±0.2)	B (±0.2)	C (±0.2)	D (±0.3)	D1 (±0.3)	E (±0.2)
GSTV7054P	7.90	7.30	7.30	5.20	1.70	2.00	3.00
	E1 (±0.2)	F (Ref.)	G (Ref.)	H (Ref.)			
	5.40	9.00	3.00	3.50			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	I _{rms} (A)		I _{sat} (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV7054P-1R5M-AG	1.5	M	17.0	15.0	19.0	17.0	6.3	7.3
GSTV7054P-2R2M-AG	2.2	M	14.5	13.0	16.5	14.5	9.7	11.2
GSTV7054P-3R3M-AG	3.3	M	11.5	10.5	14.0	12.3	13.0	15.0
GSTV7054P-4R7M-AG	4.7	M	10.5	9.0	13.3	11.3	17.8	20.5
GSTV7054P-5R6M-AG	5.6	M	9.3	8.5	11.0	9.5	19.2	22.1
GSTV7054P-6R8M-AG	6.8	M	8.7	8.0	10.2	9.0	23.0	26.5
GSTV7054P-8R2M-AG	8.2	M	8.0	7.5	9.2	8.1	27.3	31.4
GSTV7054P-100M-AG	10.0	M	7.2	6.7	8.0	7.0	33.0	38.0
GSTV7054P-150M-AG	15.0	M	5.5	5.0	7.2	6.2	60.0	66.0
GSTV7054P-220M-AG	22.0	M	5.0	4.5	6.3	5.4	85.0	93.5

- * **Test Condition** : @100KHz , 1.0Vrms , 25 °C Ambient
 - * **Inductance Tolerance** : M = +/-20%
 - * **I_{rms}** : Rated Current Loading when temperature rise approximately 40 °C
 - * **I_{sat}** : Saturated Current measured at the point of L drop approximately 30%
 - * **The parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.
- Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.
- * All test data is referenced to 25 °C Ambient.
 - * **I_{rms} Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.
- Therefore temporeture rise should be verified in application condition
- * **Rated DC Current** : The less value whith is I_{rms} or I_{sat}

Material List :

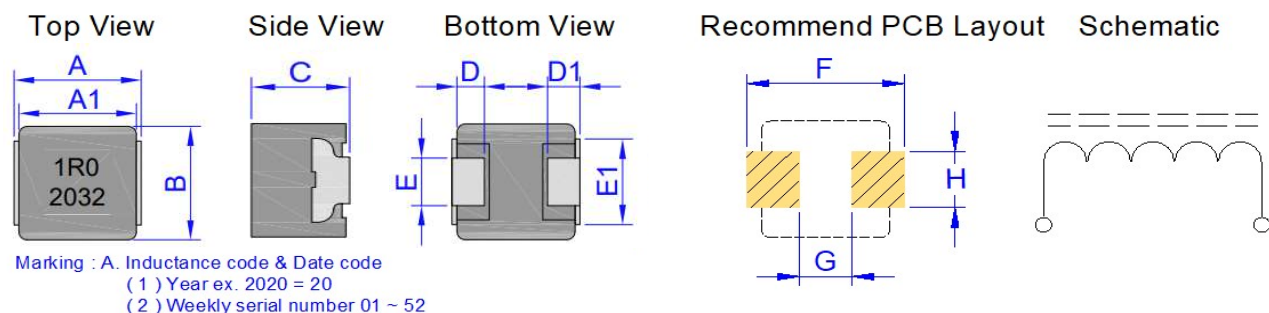


NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

GSTV7054P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.2)	B (±0.2)	C (±0.2)	D (±0.3)	D1 (±0.3)	E (±0.2)
GSTV7054P	7.90	7.30	7.30	5.20	1.70	2.00	3.00
	E1 (±0.2)	F (Ref.)	G (Ref.)	H (Ref.)			
	5.40	9.00	3.00	3.50			

Electrical Characteristics :

Part No.	Inductance (μ H)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (m Ω)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV7054P-330M-AG	33.0	M	4.0	3.5	4.9	4.2	111.0	127.6
GSTV7054P-470M-AG	47.0	M	3.2	2.7	4.1	3.5	156.0	171.6
GSTV7054P-680M-AG	68.0	M	2.7	2.4	3.0	2.6	218.0	251.0
GSTV7054P-101M-AG	100.0	M	2.2	2.0	2.0	1.6	310.0	357.0

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

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

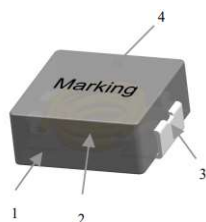
* All test data is referenced to 25 °C Ambient.

* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value which is Irms or Isat

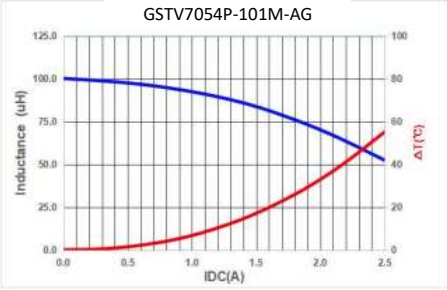
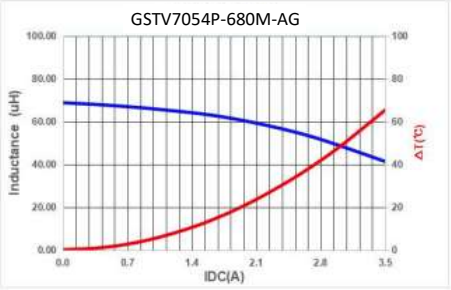
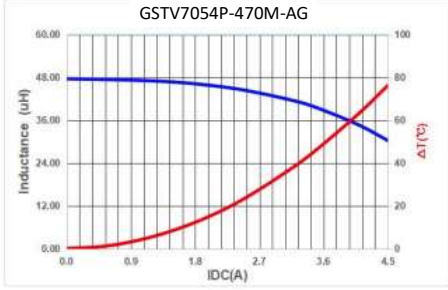
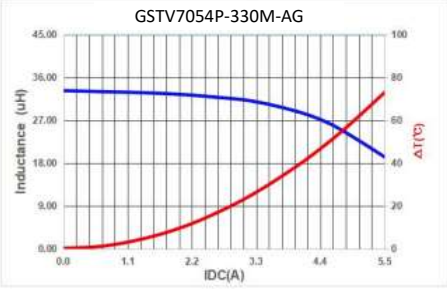
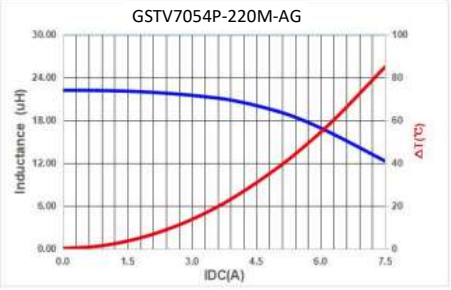
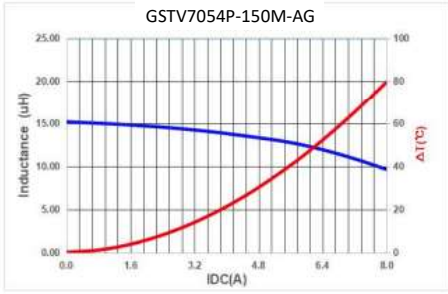
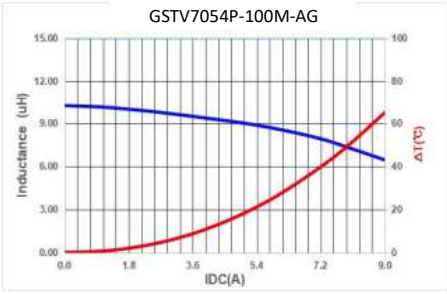
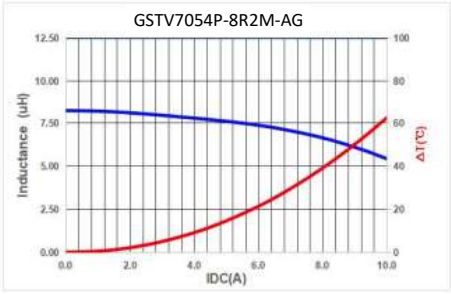
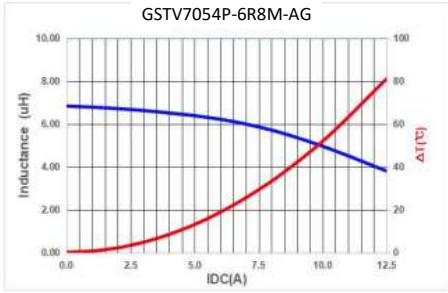
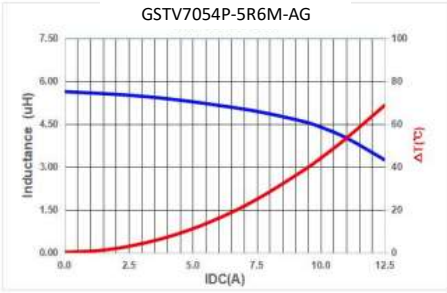
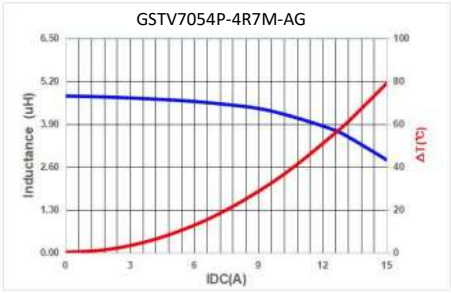
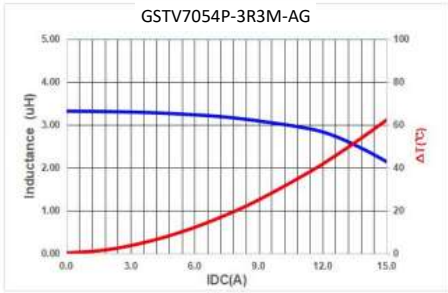
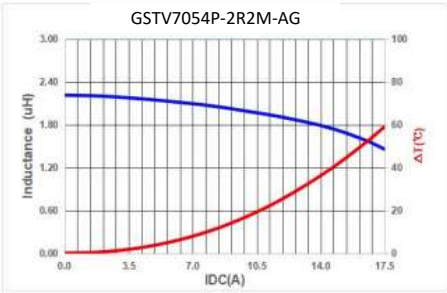
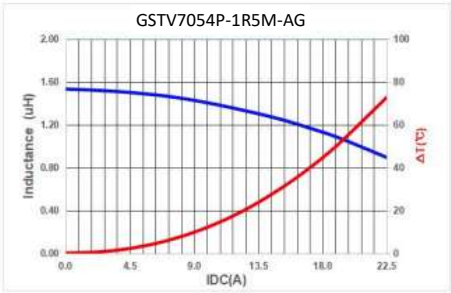
Material List :



NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

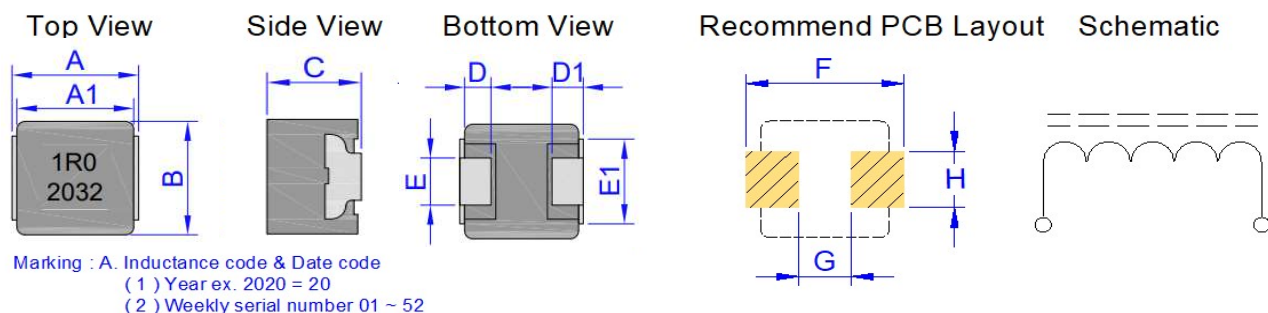
Typical Performance Curves:



Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

GSTV1040P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.3)	B (±0.3)	C (±0.2)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV1040P	11.00	10.10	10.00	3.80	2.00	2.30	4.50
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	6.60	12.30	5.50	5.00			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV1040P-R47M-AG	0.47	M	34.0	29.0	31.0	28.0	1.42	1.63
GSTV1040P-R56M-AG	0.56	M	32.0	27.0	29.0	27.0	1.7	2.0
GSTV1040P-R68M-AG	0.68	M	31.0	26.0	28.0	26.0	2.0	2.3
GSTV1040P-R78M-AG	0.78	M	30.0	25.0	27.0	25.0	2.3	2.5
GSTV1040P-R82M-AG	0.82	M	27.0	23.0	26.5	24.0	2.4	2.7
GSTV1040P-1R0M-AG	1.0	M	25.0	21.0	26.0	23.0	2.7	3.1
GSTV1040P-1R5M-AG	1.5	M	22.0	19.0	24.0	21.0	3.9	4.5
GSTV1040P-1R8M-AG	1.8	M	20.0	17.0	23.0	20.0	4.4	5.5
GSTV1040P-2R2M-AG	2.2	M	18.0	16.0	19.0	17.0	5.3	6.1
GSTV1040P-3R3M-AG	3.3	M	15.0	13.0	17.0	15.0	9.0	10.4
GSTV1040P-4R7M-AG	4.7	M	11.0	10.0	13.5	11.5	13.4	15.0
GSTV1040P-5R6M-AG	5.6	M	10.5	9.5	12.0	10.5	15.4	17.0

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

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

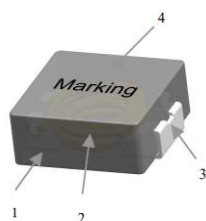
* All test data is referenced to 25 °C Ambient.

* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value whith is Irms or Isat

Material List :

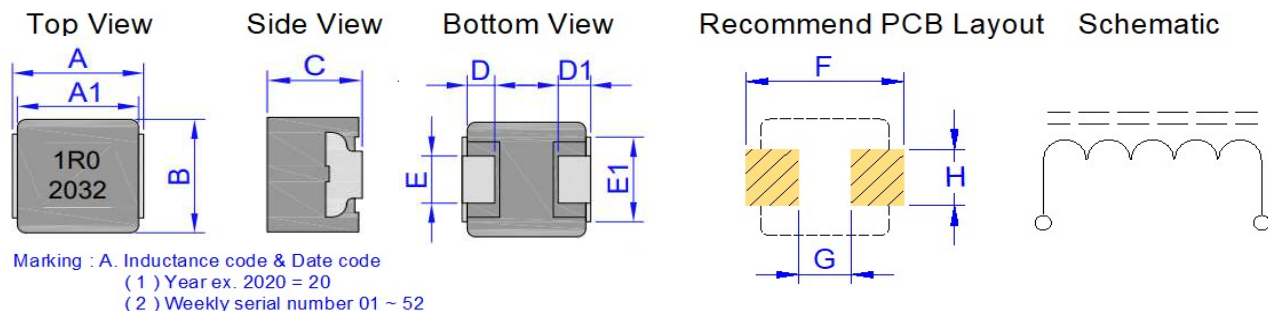


NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

GSTV1040P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.3)	B (±0.3)	C (±0.2)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV1040P	11.00	10.10	10.00	3.80	2.00	2.30	4.50
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	6.60	12.30	5.50	5.00			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV1040P-6R8M-AG	6.8	M	10.0	9.5	11.0	10.0	17.0	19.0
GSTV1040P-8R2M-AG	8.2	M	8.5	7.7	9.0	8.0	23.0	25.3
GSTV1040P-100M-AG	10.0	M	8.0	7.2	8.2	7.5	27.0	30.0
GSTV1040P-120M-AG	12.0	M	7.4	6.8	7.5	6.9	29.0	33.4
GSTV1040P-150M-AG	15.0	M	6.4	6.0	7.0	6.3	40.0	45.0
GSTV1040P-220M-AG	22.0	M	5.5	5.0	6.0	5.5	59.0	68.0
GSTV1040P-330M-AG	33.0	M	4.7	3.7	4.8	4.1	89.0	102.0
GSTV1040P-470M-AG	47.0	M	3.6	3.2	4.0	3.6	143.0	165.0

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

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

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

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

* **The parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 ℃ if under worst case of operating conditions.

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

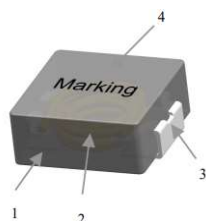
* All test data is referenced to 25 ℃ Ambient.

* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value whith is Irms or Isat

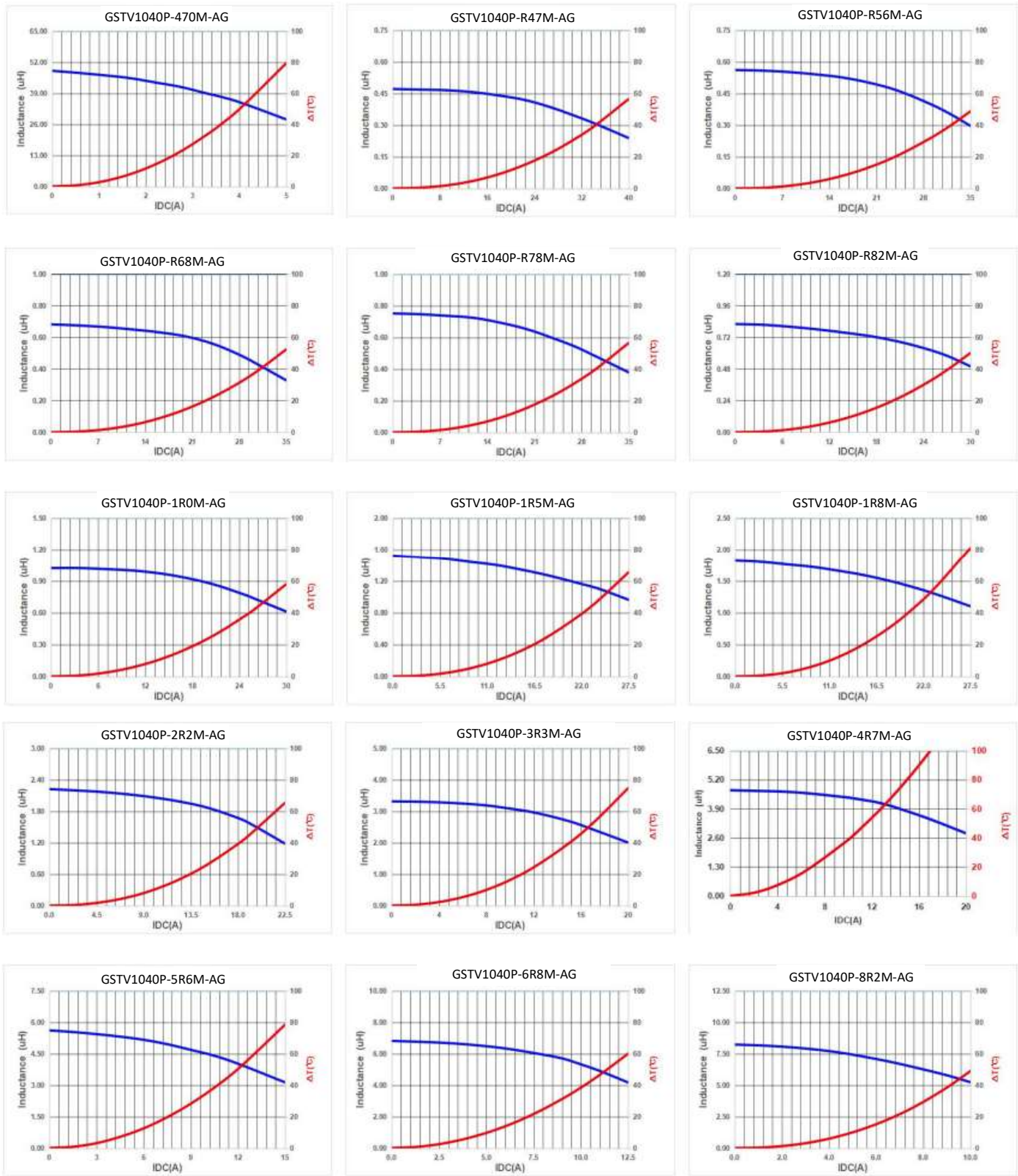
Material List :



NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

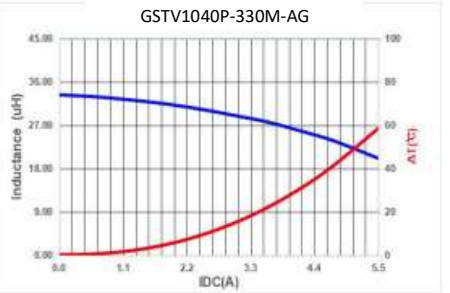
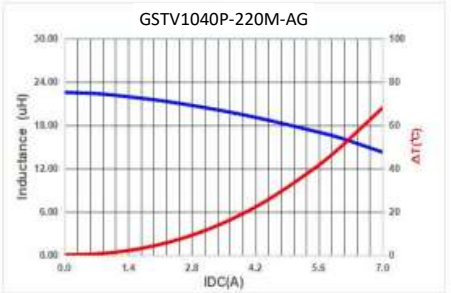
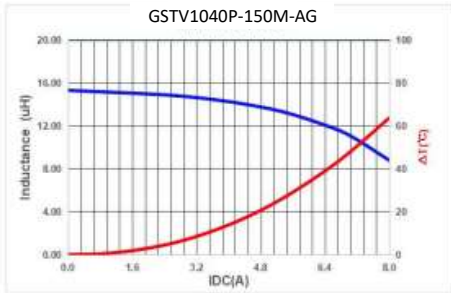
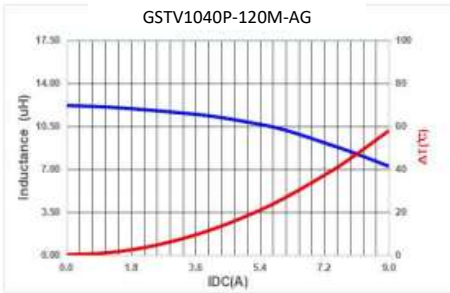
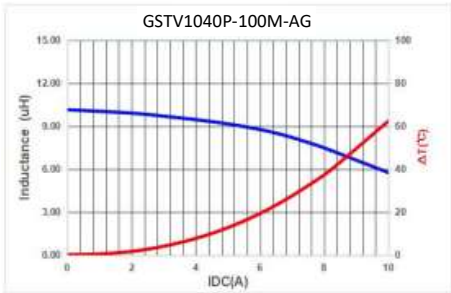
Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

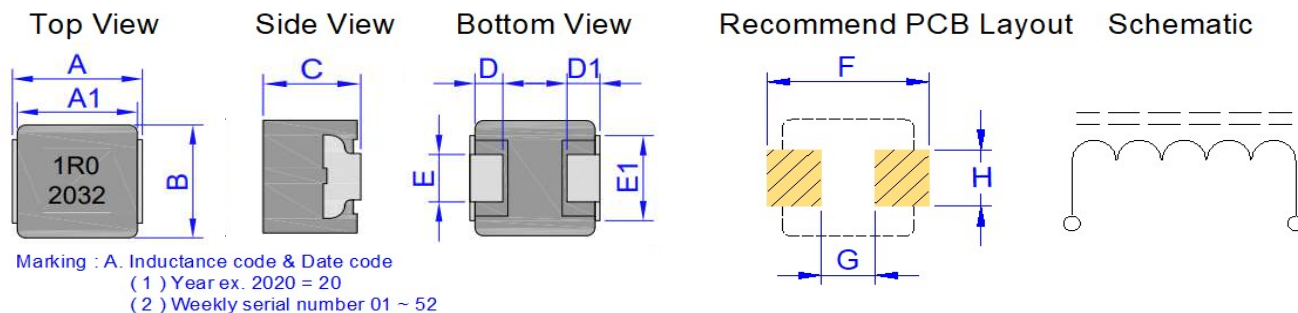
Typical Performance Curves:



Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

GSTV1054P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.3)	B (±0.3)	C (±0.3)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV1054P	11.00	10.10	10.00	5.10	2.00	2.30	4.50
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	6.60	12.30	5.50	5.00			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)	Isat (A)	DCR (mΩ)	
			Typ.	Typ.	Typ.	Max.
GSTV1054P-1R0M-AG	1.0	M	30.0	37.0	2.3	2.76
GSTV1054P-1R2M-AG	1.2	M	27.0	29.0	3.0	3.6
GSTV1054P-1R5M-AG	1.5	M	25.0	28.0	3.6	4.3
GSTV1054P-1R8M-AG	1.8	M	24.0	26.0	3.9	4.6
GSTV1054P-2R2M-AG	2.2	M	23.0	25.0	4.1	4.9
GSTV1054P-3R3M-AG	3.3	M	18.7	20.0	6.2	7.2
GSTV1054P-4R7M-AG	4.7	M	14.5	17.0	9.0	10.0
GSTV1054P-5R6M-AG	5.6	M	13.2	16.2	10.2	11.7
GSTV1054P-6R8M-AG	6.8	M	12.3	15.3	12.4	14.0
GSTV1054P-8R2M-AG	8.2	M	10.3	14.0	17.8	20.5
GSTV1054P-100M-AG	10.0	M	9.0	13.0	20.0	23.0
GSTV1054P-120M-AG	12.0	M	8.3	9.8	23.0	26.4

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

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

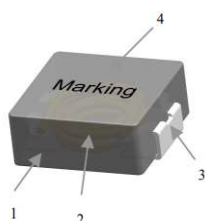
* All test data is referenced to 25 °C Ambient.

* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value whith is Irms or Isat

Material List :



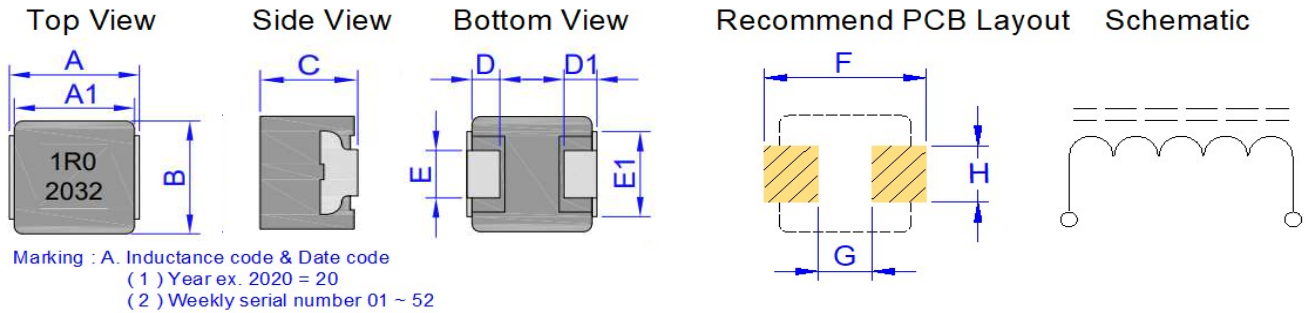
NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

Product Series : GSTV
File Version : GSTV-SERIES-AG
Established Date 2023.03.24
Latest Edit Date : 2023.06.05

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

GSTV1054P-SERIES-AG

Dimension [mm] :



Size	A (±0.3)	A1 (±0.3)	B (±0.3)	C (±0.3)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV1054P	11.00	10.10	10.00	5.10	2.00	2.30	4.50
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	6.60	12.30	5.50	5.00			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)	Isat (A)	DCR (mΩ)	
			Typ.	Typ.	Typ.	Max.
GSTV1054P-150M-AG	15.0	M	7.6	9.2	26.3	30.3
GSTV1054P-180M-AG	18.0	M	7.0	9.0	33.0	38.0
GSTV1054P-220M-AG	22.0	M	6.0	8.8	43.5	50.0
GSTV1054P-330M-AG	33.0	M	5.0	7.6	66.0	75.3
GSTV1054P-470M-AG	47.0	M	4.2	5.5	89.0	103.0
GSTV1054P-680M-AG	68.0	M	3.5	4.8	130.0	150.0

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

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

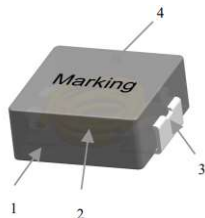
* All test data is referenced to 25 °C Ambient.

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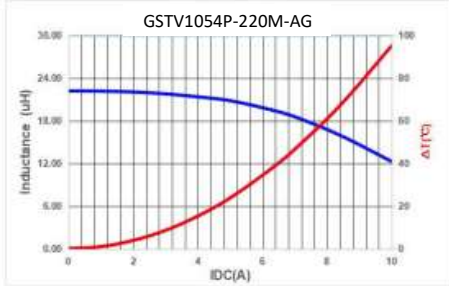
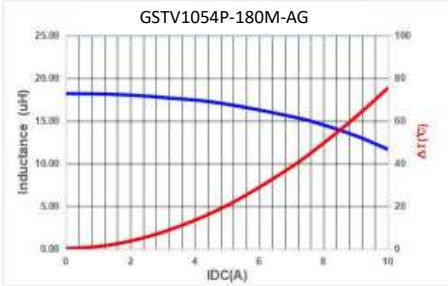
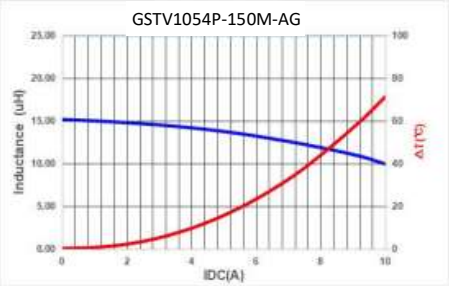
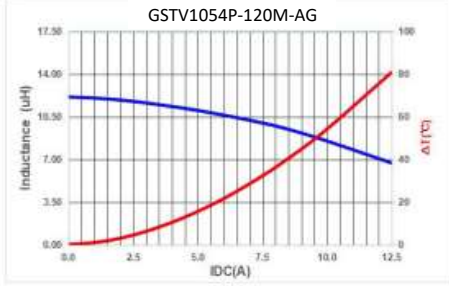
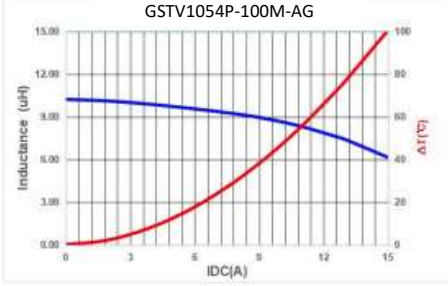
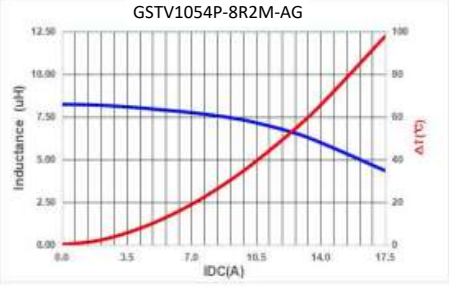
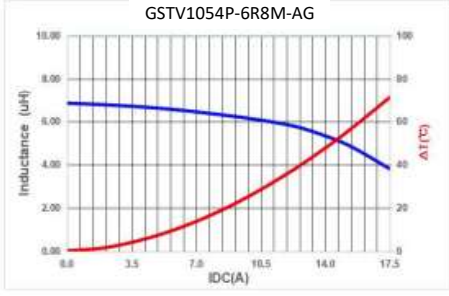
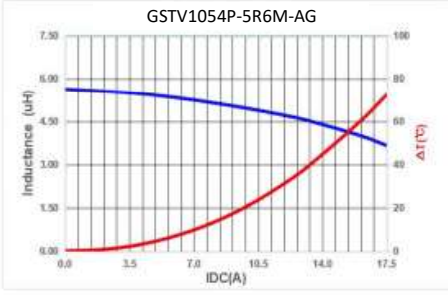
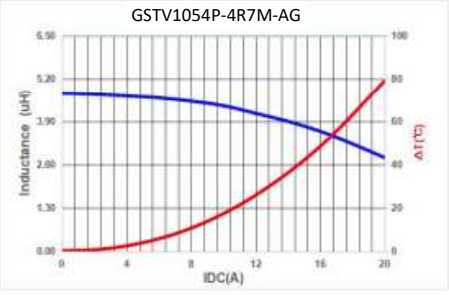
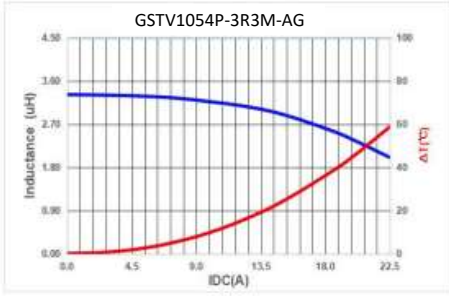
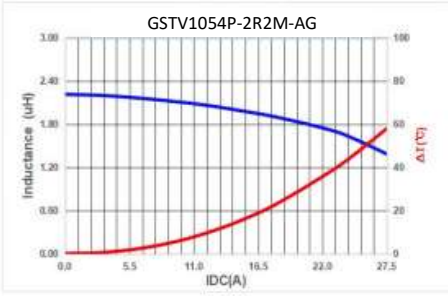
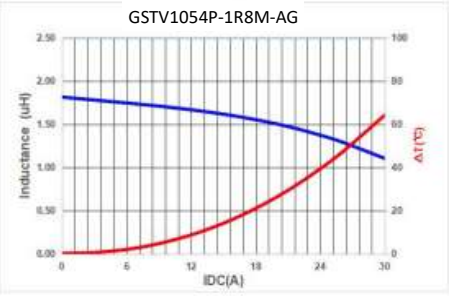
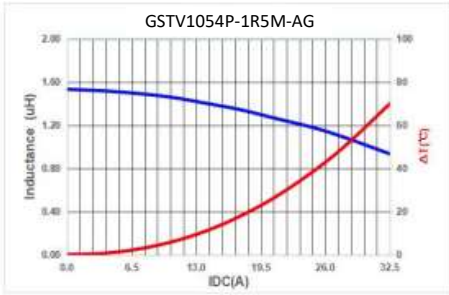
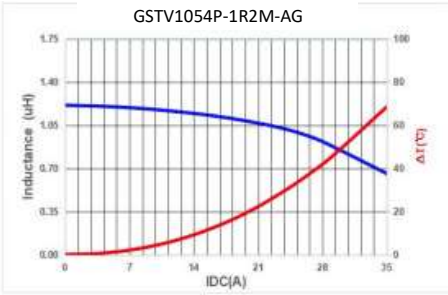
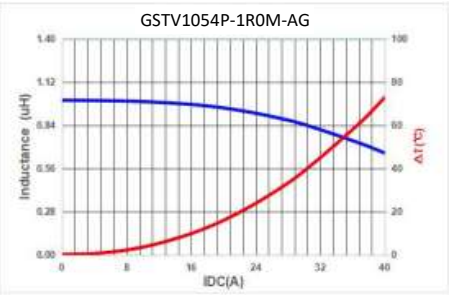
Material List :



NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

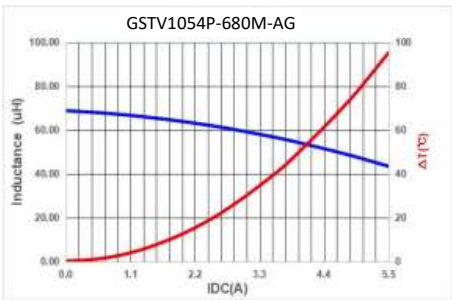
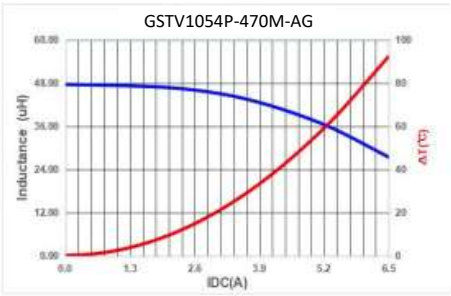
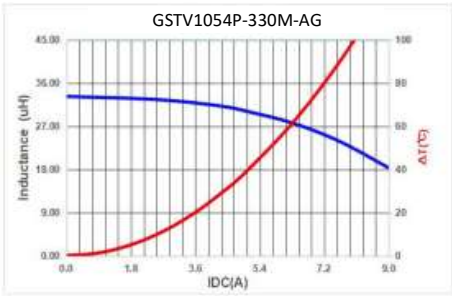
Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

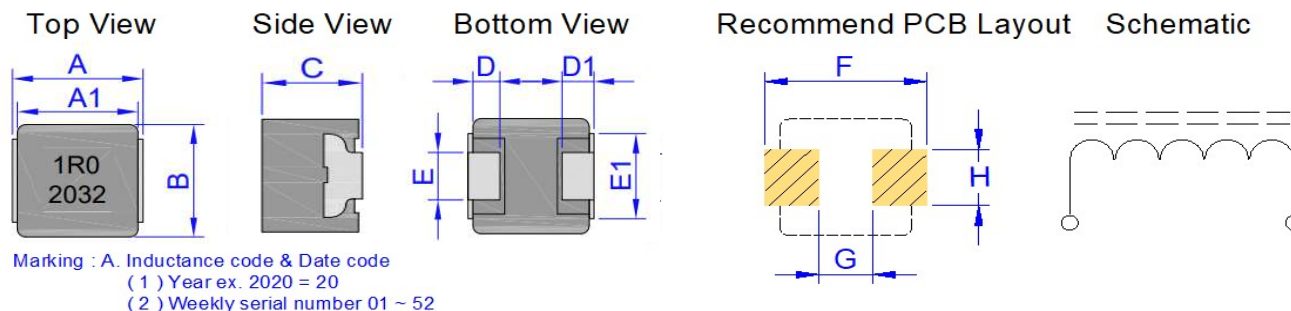
Typical Performance Curves:



Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

GSTV1265P-SERIES-AG

Dimension [mm] :



Size	A (±0.4)	A1 (±0.3)	B (±0.2)	C (±0.3)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV1265P	13.60	12.60	12.60	6.20	2.00	2.50	5.00
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	9.20	15.00	8.00	6.00			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV1265P-R68M-AG	0.68	M	36.50	30.00	36.50	31.00	1.35	1.62
GSTV1265P-1R0M-AG	1.00	M	32.00	27.00	32.00	28.00	1.75	2.10
GSTV1265P-1R5M-AG	1.50	M	27.00	24.00	29.00	26.00	2.30	2.76
GSTV1265P-2R2M-AG	2.20	M	23.00	20.00	26.00	23.00	3.60	4.20
GSTV1265P-3R3M-AG	3.30	M	19.00	16.00	24.00	21.00	5.90	6.80
GSTV1265P-4R7M-AG	4.70	M	17.00	14.00	20.00	18.00	7.30	8.40
GSTV1265P-5R6M-AG	5.60	M	15.00	13.00	18.00	16.00	9.10	10.00
GSTV1265P-6R8M-AG	6.80	M	14.00	12.00	17.00	15.00	9.70	11.20
GSTV1265P-8R2M-AG	8.20	M	13.00	11.00	16.00	14.00	11.80	13.60
GSTV1265P-100M-AG	10.00	M	12.00	10.00	13.50	12.00	14.30	16.50

* **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 parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 °C if under worst case of operating conditions.

Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.

Part temperature should be verified in the end application.

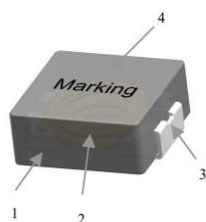
* All test data is referenced to 25 °C Ambient.

* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value whith is Irms or Isat

Material List :

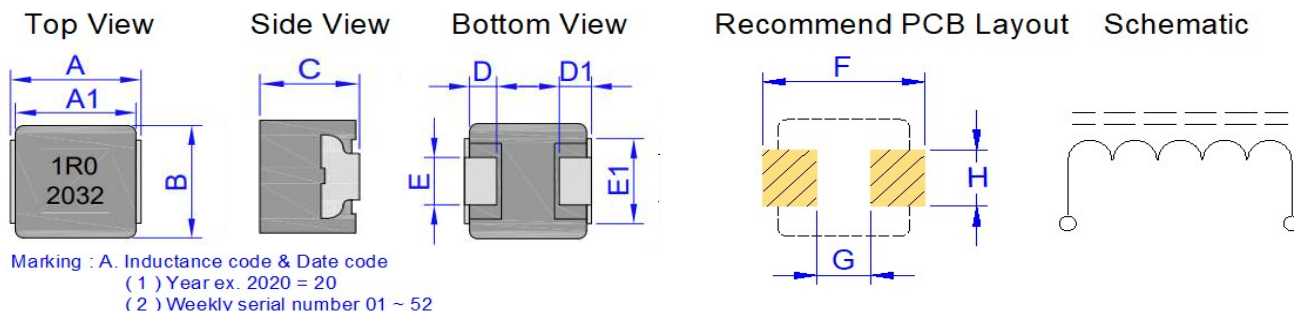


NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

GSTV1265P-SERIES-AG

Dimension [mm] :



Size	A (±0.4)	A1 (±0.3)	B (±0.2)	C (±0.3)	D (±0.3)	D1 (±0.3)	E (±0.3)
GSTV1265P	13.60	12.60	12.60	6.20	2.00	2.50	5.00
	E1 (±0.3)	F (Ref.)	G (Ref.)	H (Ref.)			
	9.20	15.00	8.00	6.00			

Electrical Characteristics :

Part No.	Inductance (uH)	Inductance Tolerance	Irms (A)		Isat (A)		DCR (mΩ)	
			Typ.	Max.	Typ.	Max.	Typ.	Max.
GSTV1265P-150M-AG	15.00	M	9.00	8.00	10.00	9.00	23.60	27.20
GSTV1265P-220M-AG	22.00	M	7.50	6.50	8.00	7.00	34.10	39.20
GSTV1265P-330M-AG	33.00	M	6.30	5.50	7.20	6.30	53.00	61.00
GSTV1265P-470M-AG	47.00	M	5.20	4.30	6.00	5.10	74.10	89.00

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

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

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

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

* **The parts final operating temperature (Ambient + The parts temperature rise)** : Should not exceed 165 ℃ if under worst case of operating conditions.

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

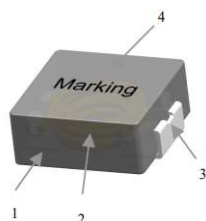
* All test data is referenced to 25 ℃ Ambient.

* **Irms Testing** : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components.

Therefore temperature rise should be verified in application condition

* **Rated DC Current** : The less value whith is Irms or Isat

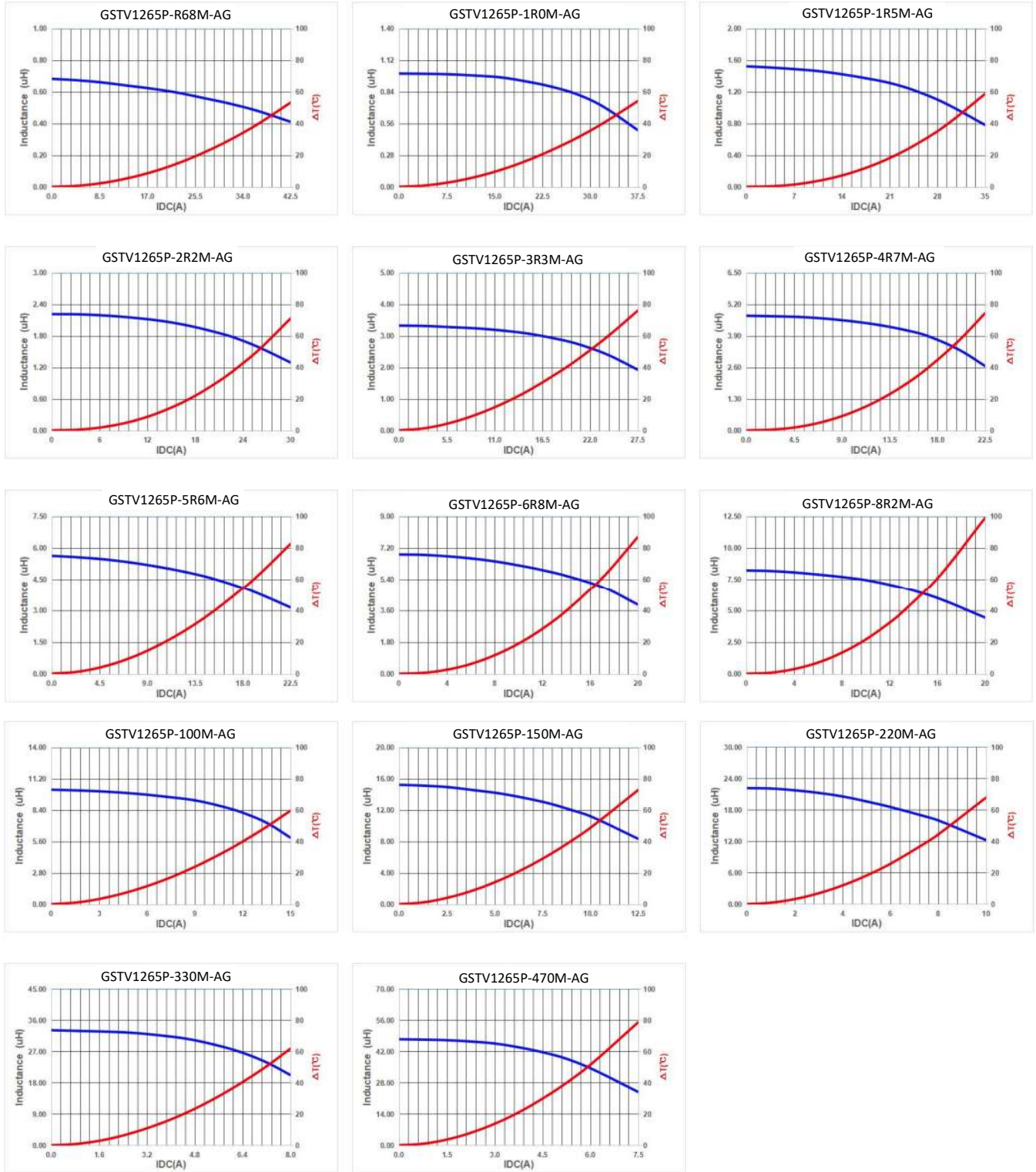
Material List :



NO	Items	Materials
1	Core	Alloy Powder .
2	Wire	Polyester Wire or equivalent.
3	Clip	100% Pb free solder(Ni+Sn---Plating)
4	Ink	Halogen-free keton

Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
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Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

Typical Performance Curves:



Product Series :	GSTV	Brand :	GOTREND
File Version :	GSTV-SERIES-AG	Editor :	Qiuyi Wu
Established Date	2023.03.24	Description :	High Current Inductor
Latest Edit Date :	2023.06.05	Product Type :	☒ Standard ☐ Customize

Care note :

Care note for Use :

(1) Storage Condition :

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

(2) Use Temperature :

- a. Minimum Temperature : -55 °C Ambient temperature of this product.
- b. Maximum Temperature : +165 °C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -55 ~ +165 °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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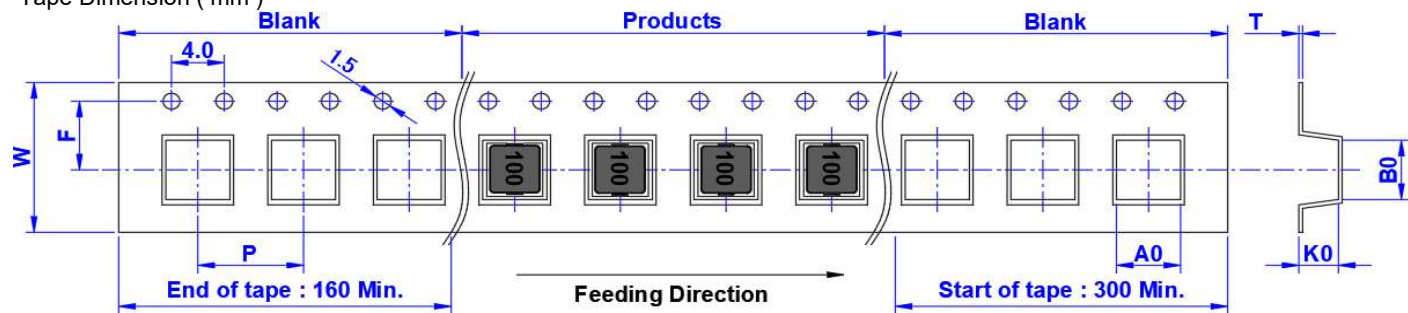
Reliability for automotive products :

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 : -55±2 °C ~ +165±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 : 165±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 : -55 °C ~ +165 °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 : 165 °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.

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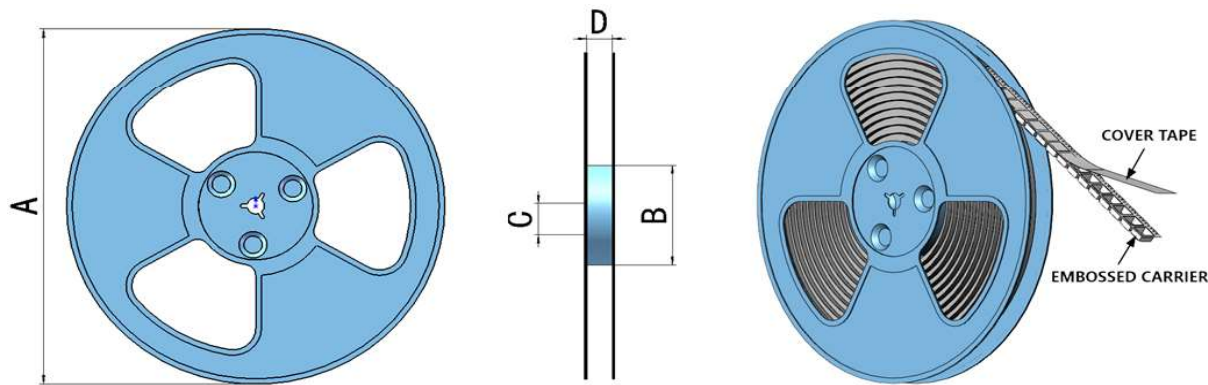
Packaging Information :

Tape Dimension (mm)



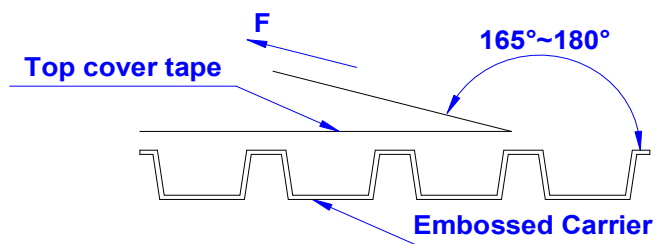
SIZE/mm	W	P	A0	B0	K0	T	F
5030	12.0	8.0	5.5	6.2	3.3	0.35	5.5
6030	16.0	12.0	7.1	8.1	3.3	0.35	7.5
7054	16.0	12.0	7.7	9.0	5.7	0.40	7.5
1040	24.0	16.0	10.4	12.3	4.5	0.40	11.5
1054	24.0	16.0	10.4	12.3	5.7	0.40	11.5
1265	24.0	16.0	13.0	14.8	7.0	0.50	11.5

Reel Dimension (mm)



SIZE/mm	Reel Size	A	B	C	D	QTY / Reel
5030	13" × 12 mm	330	100	13.0	12.5	2,000 PCS
6030	13" × 16 mm	330	100	13.0	16.5	1,000 PCS
7054	13" × 16 mm	330	100	13.0	16.5	800 PCS
1040	13" × 24 mm	330	100	13.0	24.5	500 PCS
1054	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



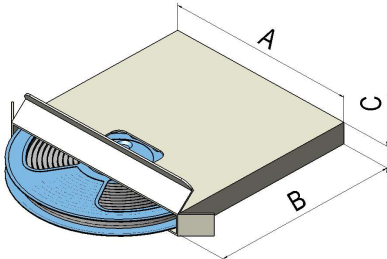
The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions (referenced ANSI / EIA - 481 - D - 2008 of 4.11stadnard).

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

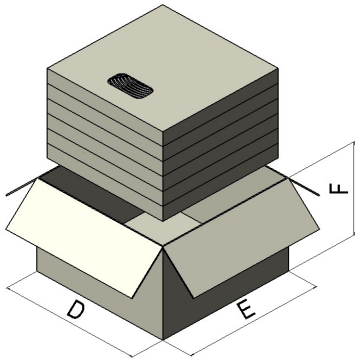
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Packaging Information :

Box Package



13" Small Box



13"Large Box

SIZE/mm	Reels size	A	B	C	Large Box	D	E	F	Reels in Small Box (QTY)	Small Box in Large Box(QTY)
5030	13"	335	335	40	13"	350	350	220	2(4,000)	5(20,000)
6030	13"	335	335	23	13"	350	350	220	1(1,000)	7(7,000)
7054	13"	335	335	23	13"	350	350	220	1(800)	7(5,600)
1040	13"	335	335	40	13"	350	350	220	1(500)	5(2,500)
1054	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)