Product Series :	GTV	Brand :	GOTREND
File Version :	GTV966610P-R07K-V1R1	Editor :	Teddy Sun
Established Date :	2021.01.05	Description :	SMD Power Inductor
Latest Edit Date :	2021 02 24	Product Type :	☑ Standard ☐ Customize

Version Information:

SN	Date	Version Code	Modify Description	Editior
01	2021.01.05	V1R0	Original build	Teddy Sun
00	2021 02 04	V4D4	Change the packaging quantity to 500 PCS	
02	2021.02.24	V1R1	Change the packaging quantity to 500 PCS Change C dimension to 10.1mm max.	Teddy Sun

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 - (1) Aerospace/Aviation equipment
 - (2) Atomic energy-related equipment
 - (3) Disaster prevention/crime prevention equipment
 - (4) Electric heating apparatus, burning equipment
 - (5) Medical equipment
 - (6) Military equipment
 - (7) Power-generation control equipment
 - (8) Public information-processing equipment
 - (9) Safety equipment
 - (10) Seabed equipment
 - (11) Transportation control equipment
 - (12) Transportation equipment (cars, electric trains, ships, etc.)
 - (13) Other applications that are not considered general-purpose applications
- Our manufacturing sites fully compliance with requirement regarding the quality management system in the automotive industry under the IATF 16949 standard. GOTREND Technology respect individual agreements with reference to customer requirements and customer specific requirements (CSR). We will like to emphasize that only requirements mutually agreed upon will in implemented in our Quality Management System taking into consideration that IATF 16949 may appear to support the acceptance of unilateral requirements. We will only legally bind to this individually agreed upon agreement under the IATF 16949 standard.
- ♦ The product itself is a powder metallurgy product, so the structure is relatively fragile, and it should not be used for products that are easy to fall. In addition, when this product is assembled, it should avoid collision with the tool or mechanism shell.



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



Page: 2/8

GTV GOTREND Product Series: Brand: File Version: GTV966610P-R07K-V1R1 Editor: Teddy Sun **Established Date:** 2021.01.05 **Description:** SMD Power Inductor **Latest Edit Date:** 2021.02.24 **Product Type:** ☑ Standard ☐ Customize

Features & Application:

- * SMD Powre Choke for High Current Capacity
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard.
- * PC / IPC / Handheld Device / LowProfile Device / LCD...



(Picture for reference only)

Part No. Example:

PN	:	GTV	966610	Р	-	R07	K
ID	:	1	2	3		5	6

1 : GOTREND Series : GTV

2 : Dimension Code : 9.6 x 6.6 x 10.1 mm

3 : P = Pb free < 1000 ppm 5 : [L] Value Ex : R07 = 70 nH

6 : Tolerance : K = 10%

Basic Information:

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

Operating & Storage Condition:

* Operating Temp $-40 \sim +125 \text{ deg.C}$ (Including self - temperature rise) * Storage Temp $1.-10 \sim +45 \text{ deg.C}$, $50 \sim 60\%$ RH (Product with taping)

2. $-40 \sim +125 \text{ deg.C}$ (On board)

* Storage Life Time 12 Month (Less than 40 deg.C and 60% RH)

Attention & Caution:

* Keep out of Splashing water or salt water

* Avoid Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)

1

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

Test Condition:

* Equipment HP4284A, HP42841A - L, Q, DCR, IDC

HP8753D Network analyzer - SRF

* Standard Atmosphere Conditions:

Ambient Temperature 20 ± 15 deg.C

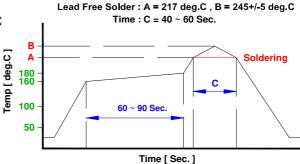
Humidity RH 65 ± 20%

 * If there may be any doubt on the test result ,

Measurement shall be made within the following limits:

Temperature 25 ± 5 deg.C Humidity RH 75 ± 10%

Recommend IR Reflow Curve: GTX-IR-FILE001

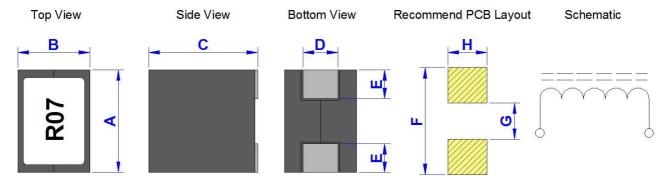




Notice : Iron Soldering , Solder < 30 Watt , Direct touch the terminal x 3 Sec. Max. @ 350 deg.C

Product Series :	GTV	Brand :	GOTREND
File Version :	GTV966610P-R07K-V1R1	Editor :	Teddy Sun
Established Date :	2021.01.05	Description :	SMD Power Inductor
Latest Edit Date :	2021.02.24	Product Type :	☑ Standard □ Customize

Dimension [mm] :



Size	A (Max.)	B (Max.)	C (Max.)	D (+/-0.2)		F (Ref.)	G (Ref.)	H (Ref.)
966610	9.60	6.60	10.10	3.20	2.70	10.00	3.40	3.60

Electrical Characteristics:

Part No.	Inductance (nH)	Tolerance	Test Freq. (Hz)	DCR (m Ohm)	Isat (A) Max.	Irms (A) Max.
GTV966610P-R07K	70	+/-10%	100K / 1.0V	0.12 Max.	145.0	84.0

^{*} All test data is referenced to 25 deg.C ambient.

 $^{^{\}ast}$ Isat (A) current will cause L0 to drop approximately 20% (Keep quickly).

^{*} Irms (A) current will cause coil temperature rise approximately up 40 deg.C without core loss.

Product Series :	GTV	Brand :	GOTREND
File Version :	GTV966610P-R07K-V1R1	Editor :	Teddy Sun
Established Date :	2021.01.05	Description :	SMD Power Inductor
Latest Edit Date :	2021.02.24	Product Type :	☑ Standard ☐ Customize

Care note:

Care note for Use:

(1) Storage Condition:

Temperature 25 to 35 deg.C, Humidity 45 to 60% RH

(2) Use Temperature:

- a. Minimum Temperature: -40 deg.C Ambient temperature of this product.
- b. Maximum Temperature: +125 deg.C The value of temperature including ambient and temperature rise of this product.
- c. Reliability test temperature range from -40 ~ +125 deg.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.

ge: 5 / 8 Email: service@gotrend.com.tw

Product Series :	GTV	Brand :	GOTREND
File Version :	GTV966610P-R07K-V1R1	Editor :	Teddy Sun
Established Date :	2021.01.05	Description :	SMD Power Inductor
Latest Edit Date :	2021.02.24	Product Type :	☑ Standard ☐ Customize

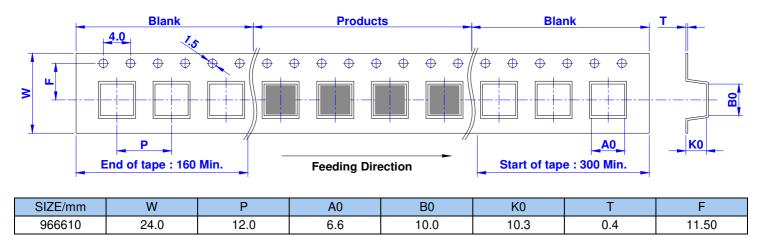
Reliability:

SN	Test Item		Test Condition		Specification
1	Dimension	Actual Size			Meet Spec
•					
2	Thermal Shock (Temperature Cycle)	Temperature : -4 Cycle : 100 Cycle	10 ~ +125 deg.C kept states (power off)	oilized for 30 min. each	Elec. no variation Appearance no deformation
		-	,		
3	Humidity Resistance	Humidity: 90% ^	~ 95% RH 0 ± 2 deg.C,Test Time:	96 + 2 Hours	Elec. no variation Appearance no deformation
	HighTemperature	Temperature : 12			Elec. no variation
4	Ingirremperature	Testing Time : 90			Appearance no deformation
	Low Temperature	Temperature : -4			Elec. no variation
5		Time : 96 ± 2 Ho			Appearance no deformation
	Temperature and	Temperature	Humidity	Time	Elec. no variation
	Humidity Cycle	25 deg.C	90% ~ 95% RH	3.0 Hr	Appearance no deformation
6		55 deg.C	95% ~ 96% RH	5.0 Hr	
		25 deg.C	90% ~ 95% RH	3.0 Hr	
		Cycle : 20 Cycle			
7	Vibration		z ~ 55Hz , Amplitude : 1.		Elec. no variation
•			, Z , Time : 2 Hours each	า	Appearance no deformation
	Solderability		SMT IR-Reflow our suggest profile.		Elec. no variation
			10 deg.C (90 sec)		Appearance no deformation
8		Peak : 245 ± 5 d			
	Peak Time: 50 Sec. / up 217 deg.C				
	Coldoring Hoot	Droboot : 160 ± :	10 dog C (00 agg)	Elec. no variation	
9	Soldering Heat Resistance	Solder: Sn / Ag	10 deg.C(90 sec) / Cu (Pb Free)		Appearance no deformation
9	ricolotanoo		260 ± 5 deg.C , Time : 3 ±	, ppodranoo no dolomation	
	Iron Solder Heat	Solder Temp. : 3	350 ± 5 dea.C		Elec. no variation
10	Resistance	•	me : 3 ± 1 seconds		Appearance no deformation
	Bending Strength	Unit : mm	40 × 40 🗍 –		Elec. no variation
		Omit . mm	10 x 10 R:	0.5	Appearance no deformation
1					
			Fara : 41/a: / min		
		Y A	Force : 1Kg / min.		
	Flexure Strength	Unit : mm	10 x 20		Elec. no variation
		1	10 X 20		Appearance no deformation
12		1.6		2.0	
			4.5	2.0	
			Solder cream 0.15 mr	n T	
	Tamain al Olivi				Flan and the Control
4.0	Terminal Strength		χ – Push 1 directi	ION force to X , Y on	Elec. no variation Appearance no deformation
13		Mount on I	(XX)		h ppearance no deformation
	High Voltogs				Elec. no variation
	High-Voltage	TIOU V DC betwe	en core & winding		Appearance no deformation
14		1			pppoaranoo no dolomidilon
14	Load life	Temperature : 25	5 + 2 dog C		Elec. no variation

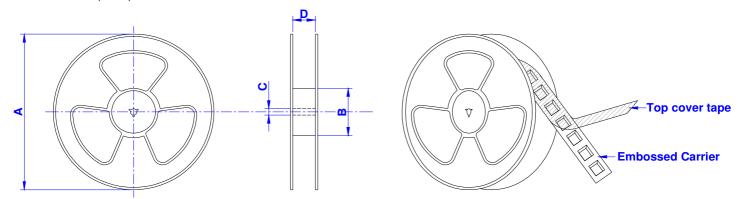
GTV **Product Series:** Brand: **GOTREND** GTV966610P-R07K-V1R1 Editor: File Version: Teddy Sun **Established Date:** 2021.01.05 **Description: SMD Power Inductor Latest Edit Date:** 2021.02.24 **Product Type:** ☑ Standard ☐ Customize

Packaging Information:

Tape Dimension (mm):

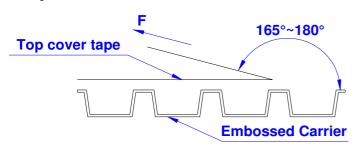


Reel Dimension (mm):



SIZE/mm	Reel Size	Α	В	С	D	QTY / Reel
966610	13" x 24 mm	330	100	13	24.5	500 PCS

Tearing Off Force:



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

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

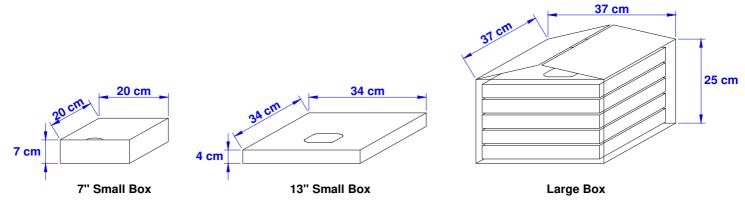
Page: 7 / 8

Email: service@gotrend.com.tw

Product Series :	GTV	Brand :	GOTREND
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Established Date :	2021.01.05	Description :	SMD Power Inductor
Latest Edit Date :	2021.02.24	Product Type :	☑ Standard ☐ Customize

Packaging Information:

Box Package :



SIZE/mm	Reels in Small Box	Small Box in Large Box
966610	1	5