

Product Series Code	GRB	Brand	GOTREND
File Version	GRB0513P-331K-V1R0	Editor	Teddy
Established Date	2016.01.26	Description	Drum Choke Inductor
Latest Edit Date	2016.01.26	Pages	Page : 2

Features & Application:

- * Drum Choke with low cost and high reliability.
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard.
- * Mobile Device / Handheld Device / LowProfile Device / Panel...

Part No Example:

GRB 0513 P - 331 K

 1 2 3 4 5

1. GOTREND Series : GRB
2. Dimension Code : Length x Width
3. P = Pb free < 1000ppm
4. Inductance : 331 = 330.0 uH
5. Tolerance : K = 10%

Test Equipment :

- * HP4284A,HP42841A- L,IDC,Q.RDC
- * HP8753D NETWORK ANALYZER- SRF

Standard Atmospheric Conditions:

Ambient Temp:20+/-15°C

Relative Humidity:65+/-20%

If there may be any doubt on the result, measurement shall be made within the following limits:

Ambient Temp:25+/-5°C

Relative Humidity:75+/-10%

Operating & Storage Condition:

OPERATING TEMP:-40~+85°C

STORAGE TEMP:-40~+85°C

STORAGE LIFE TIME: 12 MONTH @25°C , RH 65%

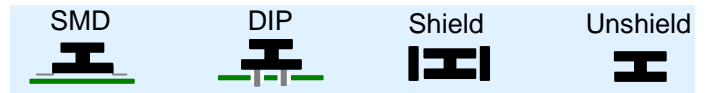
Electrical Characteristics:

Custom Design @ 10KHz,1V				
P/N	Inductance (uH)	DCR (Ohm)	Isat (mA)	Irms (mA)
GRB0513P-331K	330.0 +/- 10%	0.665 Max.	600 Max.	580 Max.

Isat : Base on L drop 10% typ.

Irms : Base on Temp. rise up 40 deg.C typ.

Product Structure



2005 RoHS Compliant - SGS Certified Result

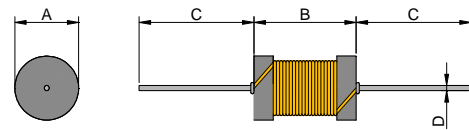
鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr+6	溴化聯苯 PBB	溴化聯苯 醌PBDE
<1000ppm	ND	ND	ND	ND	ND

DIMENSION : [mm]

MECHANICAL ASSEMBLY

FRONT VIEW

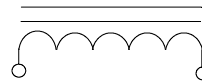
SIDE VIEW



TYPE : A (Max.) B (Max.) C (+/-3.0) D (+/-0.05)

0513 5.6 16.5 25.0 0.80

SCHEMATIC:



Attention & Caution:

Please avoid following matters:

- * Splashing water or salt water
- * Toxic Gas (Hydrogen sulfide, Sulfurous acid, Chlorine, Ammonia)
- * Vibrations or shocks which exceed the specified condition
- * Dew condenses
- * Please be careful for the stress to this product by board flexure or something after the mounting.

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NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Spec	Result																
1	Dimension 本體相關呎吋	Actual Size ...	10	Meet Spec	ok																
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-20 ° C/ +85 ° C kept stabilized for 30 minutes each Cycle: 100 Cycles(power off)	10	Elec. no variation Appearance no deformation	ok																
3	Humidity Resistance 耐濕試驗	Humidity: 90% ~ 95% RH Temperature: 40± 2 ° C Test Time: 120± 2 Hours	10	Elec. no variation Appearance no deformation	ok																
4	High Temperature 耐熱試驗	Temperature: 85± 2 ° C Humidity: 20% Testing Time: 120± 2 Hours	10	Elec. no variation Appearance no deformation	ok																
5	Low Temperature 耐寒試驗	Temperature: -20 ± 2 ° C Time: 120± 2 Hours	10	Elec. no variation Appearance	ok																
6	Temperature and Humidity Cycle 溫/濕度循環試驗	<table border="1"> <thead> <tr> <th>Step</th> <th>Temp</th> <th>Humidity</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>25± 2 ° C</td> <td>95-100%RH</td> <td>3.0Hr</td> </tr> <tr> <td>2</td> <td>55± 2 ° C</td> <td>95-96%RH</td> <td>9.5Hr</td> </tr> <tr> <td>3</td> <td>25± 2 ° C</td> <td>95-100%RH</td> <td>9.5Hr</td> </tr> </tbody> </table>	Step	Temp	Humidity	Time	1	25± 2 ° C	95-100%RH	3.0Hr	2	55± 2 ° C	95-96%RH	9.5Hr	3	25± 2 ° C	95-100%RH	9.5Hr	10	Elec. no variation Appearance no deformation	ok
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3	25± 2 ° C	95-100%RH	9.5Hr																		
7	Vibration 振動性試驗	Frequency: 10Hz~55Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 Hours each	10	Elec. no variation Appearance no deformation	ok																
8	Soldering Heat Resistance 耐熱 焊性試驗	Preheat:120 ~ 150 ° C (6 sec) Solder:H63A(eutectic solder) Solder Temp.: 260 ± 5 ° C Flux: Rosin Dip time: 10± 1 seconds	10	Elec. no variation Appearance no deformation	ok																
9	High-Voltage 高壓電擊試驗	100 V DC between core & winding	10	Elec. no variation Appearance no deformation	ok																
10	ORT:on going reliability test 負載電氣試驗	Elec loading & spec test... base on Spec for approval	10	Elec. no variation Appearance no deformation	ok																

BOX Package: cm

