

Product Series Code	GRB	Brand	GOTREND
File Version	GRB0312P-04A18YDPT-V1R0	Editor	Teddy
Established Date	2017.08.08	Description	Dip R Choke
Latest Edit Date	2017.08.08	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 0312 P - 04 A 18 Y DP T
 1 2 3 4 5 6 7 8 9

- GOTREND Series : GRB
- Core Dimension Code : Width x Length
- P = Pb free < 1000ppm
- Wire Size : 04=0.4mm / 10=1.0mm etc.
- Wire Count : A=Single , B=2 Wire , C=3 Wire etc.
- Wire Turns : 18=18.5 Turns
- Wire Color : Y=Copper Yellow , R=Copper Red
- Pin Foot : DP=Dip
- T=TUBE

Custom Design @ 1KHz , 1.0V			
P/N	Inductance(uH)	DCR (m ohm)	IDC (A)
GRB0312P-04A18YDPT	4.7 uH +/- 20%	41.0 Max.	1.0 Max.

IDC : L drop 10% Typ.

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: -20 ~ +85°C

STORAGE TEMP: -20 ~ +85°C

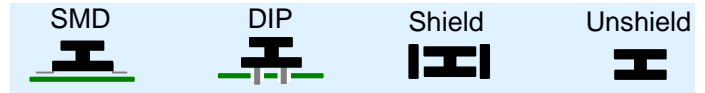
STORAGE LIFE TIME: 12 MONTH @ 25°C , RH 65%

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.

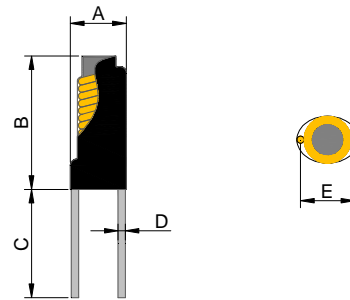
Product Structure



2005 RoHS Compliant - SGS Certified Result

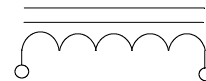
鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr+6	溴化聯苯 PBB	溴化聯苯醚 PBDE
<1000ppm	ND	ND	ND	ND	ND

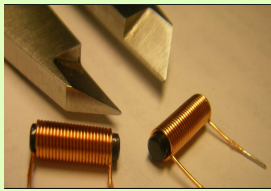
DIMENSION : [mm]



A	B	C	D	E
Max.	+/-1.5	+/-2.0	+/-0.1	+/-0.5
6.50	12.0	10.0	0.40	3.8

SCHEMATIC:





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NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Spec	Result																
1	Dimension 本體相關吋吋	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

