

| | | | |
|---------------------|-------------------------|-------------|-------------|
| Product Series Code | GRB | Brand | GOTREND |
| File Version | GRB0312P-04A11YDPT-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 11 Y DP T
 1 2 3 4 5 6 7 8 9

- 1.GOTREND Series : GRB
- 2.Core Dimension Code : Width x Length
- 3.P = Pb free < 1000ppm
- 4.Wire Size : 04=0.4mm / 10=1.0mm etc.
- 5.Wire Count : A=Single , B=2 Wire , C=3 Wire etc.
- 6.Wire Turns : 11=11.5 Turns
- 7.Wire Color : Y=Copper Yellow , R=Copper Red
- 8.Pin Foot : DP=Dip
- 9.T=TUBE

Custom Design @ 1KHz , 1.0V

| P/N | Inductance(uH) | DCR (m ohm) | IDC (A) |
|--------------------|----------------|---------------|-----------|
| GRB0312P-04A11YDPT | 2.2 uH +/- 20% | 27.0 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

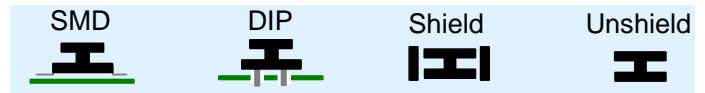
STORAGE LIFE TIME: 12 MONTH @25°C , RH 65%

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 condensens
- * Please be careful for the stress to this product by board flexure or something after the mounting.

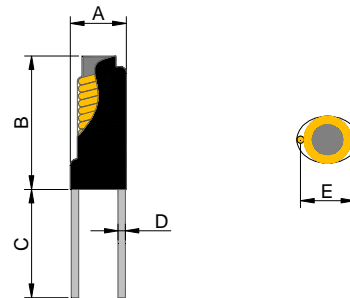
Product Structure



2005 RoHS Compliant - SGS Certified Result

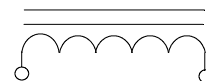
| 鉛 Pb | 鎘 Cd | 汞 Hg | 六價鉻 Cr+6 | 溴化聯苯 PBB | 溴化聯苯醚 PBDE |
|----------|---------|---------|-------------|-------------|---------------|
| <1000ppm | ND | ND | ND | ND | ND |

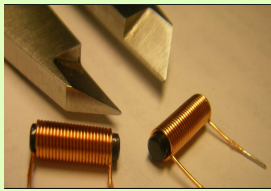
DIMENSION : [mm]



| 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:





| | | | |
|---------------------|--------------------------------|-------------|--------------------|
| Product Series Code | GRB | Brand | GOTREND |
| File Version | GRB0312P-04A11YDPT-V1R0 | Editor | Teddy |
| Established Date | 2017.08.08 | Description | Dip R Choke |
| Latest Edit Date | 2017.08.08 | Pages | Page : 3 |

| 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 |
| 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 | | | | | | | | | | | | | | | | | | |
| 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

