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|---------------------|-------------------|-------------|----------|
| Product Series Code | GAC | Brand | GOTREND |
| File Version | GAC0603P-08A02YFB | Editor | Teddy |
| Established Date | 2016.07.25 | Description | Air Coil |
| Latest Edit Date | 2016.07.25 | Pages | Page : 2 |

Features & Application:

- * 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 :

GAC 0603 P - 08 A 02 Y FB

 1 2 3 4 5 6 7 8

- 1.GOTREND Series : GAC
- 2.Core Dimension Code : Width x Length
- 3.P = Pb free < 1000ppm
- 4.Wire Size : 08=0.8mm / 10=1.0mm etc.
- 5.Wire Count : A=Single , B=2 Wire , C=3 Wire etc.
- 6.Wire Turns : 02 = 2.5 Turns
- 7.Wire Color : Y = Copper Yellow , R = Copper Red
- 8.Pin Foot : FB = Dip

Test Equipment :

* HP4284A , HP42841A - L , RDC

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%

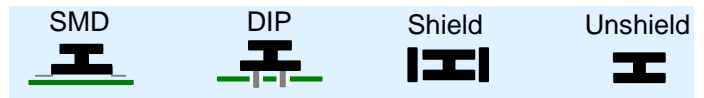
Operating & Storage Condition :

OPERATING TEMP : -20 ~ +85°C

STORAGE TEMP : -20 ~ +85°C

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

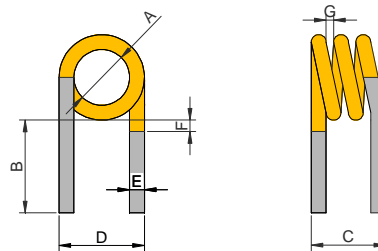
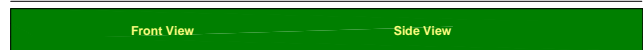
Product Structure



2005 RoHS Compliant - SGS Certified Result

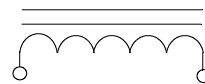
| | | | | | |
|----------|---------|---------|-------------|-------------|---------------|
| 鉛 Pb | 鎘 Cd | 汞 Hg | 六價鉻 Cr+6 | 溴化聯苯 PBB | 溴化聯苯 醚PBDE |
| <1000ppm | ND | ND | ND | ND | ND |

DIMENSION : [mm]



| Size | A[+/-0.2] | B[+/-0.1] | C[+/-0.5] | D[+/-0.5] | E[+/-0.05] | F[Max.] | G[Ref.] |
|------|-----------|-----------|-----------|-----------|------------|---------|---------|
| 0603 | 4.4 | 3.81 | 3.8 | 6.3 | 0.8 | 0.5 | 0.5 |

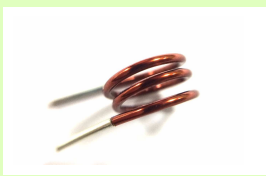
SCHEMATIC:



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



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Reliability :

| 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

