

Product Series Code	GHDR	Brand	GOTREND
File Version	GHDR-V1R1	Editor	Teddy
Established Date	2012.01.06	Description	Drum Choke Inductor
Latest Edit Date	2013.02.23	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:

GHDR 0810 P □ - 101 □
 1 2 3 4 5 6

1. GOTREND Series : GHDR
2. Dimension Code : Length x Width
3. P = Pb free < 1000ppm
4. U : UL Tube Covered
5. Inductance : 101 = 100 uH (Ex: 1R0 = 1.0 uH ; 100 = 10 uH)
6. Tolerance : K = 10% ; M = 20%

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 : -55 ~ +105°C

STORAGE TEMP : -40 ~ +105°C

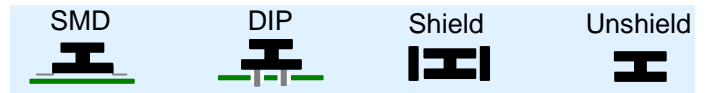
STORAGE LIFE TIME : 12 MONTH @25°C , RH 65%

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

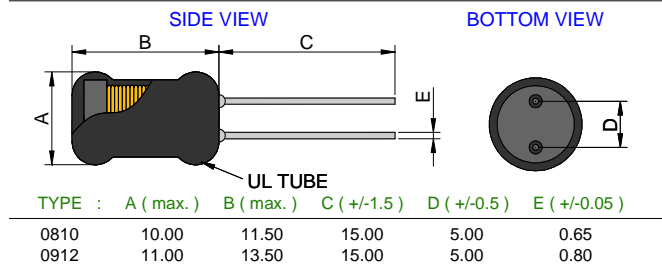


2005 RoHS Compliant - SGS Certified Result

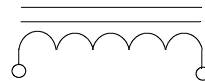
鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr+6	溴化聯苯 PBB	溴化聯苯 醚PBDE
<1000ppm	ND	ND	ND	ND	ND

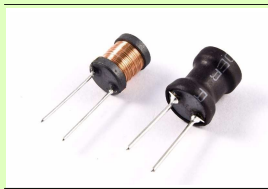
DIMENSION : [mm]

MECHANICAL ASSEMBLY



SCHEMATIC:





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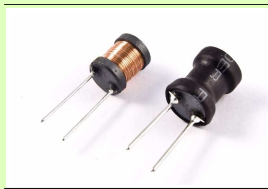
Electrical Characteristics :

PART NO.	INDUCTANCE @ 1KHz / 0.25V	DCR Ohm [Max.]	IDC Amp [Typ.]
GHDR0810P□-1R0□	1.0	0.013	10.00
GHDR0810P□-1R5□	1.5	0.016	8.50
GHDR0810P□-2R2□	2.2	0.021	6.50
GHDR0810P□-3R3□	3.3	0.025	5.50
GHDR0810P□-4R7□	4.7	0.030	4.60
GHDR0810P□-6R8□	6.8	0.035	4.10
GHDR0810P□-100□	10.0	0.045	3.40
GHDR0810P□-120□	12.0	0.050	3.10
GHDR0810P□-150□	15.0	0.056	2.90
GHDR0810P□-180□	18.0	0.061	2.66
GHDR0810P□-220□	22.0	0.070	2.40
GHDR0810P□-270□	27.0	0.080	2.22
GHDR0810P□-330□	33.0	0.090	2.05
GHDR0810P□-390□	39.0	0.100	1.85
GHDR0810P□-470□	47.0	0.160	1.77
GHDR0810P□-560□	56.0	0.180	1.48
GHDR0810P□-680□	68.0	0.210	1.40
GHDR0810P□-820□	82.0	0.230	1.36
GHDR0810P□-101□	100.0	0.280	1.30
GHDR0810P□-121□	120.0	0.320	1.25
GHDR0810P□-151□	150.0	0.370	1.15
GHDR0810P□-181□	180.0	0.580	1.08
GHDR0810P□-221□	220.0	0.650	1.00
GHDR0810P□-271□	270.0	0.750	0.90
GHDR0810P□-331□	330.0	0.850	0.78
GHDR0810P□-391□	390.0	1.000	0.74
GHDR0810P□-471□	470.0	1.100	0.68
GHDR0810P□-561□	560.0	1.400	0.64
GHDR0810P□-681□	680.0	1.600	0.59
GHDR0810P□-821□	820.0	1.800	0.56
GHDR0810P□-102□	1000.0	2.900	0.51

*Inductance drop: 10% typ. at IDC.

* □ : U = UL Tube

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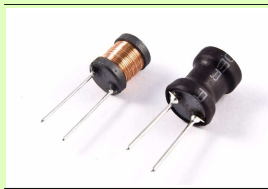
Electrical Characteristics :

PART NO.	INDUCTANCE @ 1KHz / 0.25V	DCR Ohm [Max.]	IDC Amp [Typ.]
GHDR0912P□-1R0□	1.0	0.012	17.00
GHDR0912P□-1R5□	1.5	0.015	16.00
GHDR0912P□-2R2□	2.2	0.020	15.00
GHDR0912P□-3R3□	3.3	0.022	14.50
GHDR0912P□-4R7□	4.7	0.026	11.00
GHDR0912P□-6R8□	6.8	0.032	9.00
GHDR0912P□-100□	10.0	0.044	8.00
GHDR0912P□-120□	12.0	0.049	7.00
GHDR0912P□-150□	15.0	0.055	6.00
GHDR0912P□-180□	18.0	0.060	5.50
GHDR0912P□-220□	22.0	0.067	5.00
GHDR0912P□-270□	27.0	0.075	4.00
GHDR0912P□-330□	33.0	0.084	3.80
GHDR0912P□-390□	39.0	0.090	3.50
GHDR0912P□-470□	47.0	0.150	3.20
GHDR0912P□-560□	56.0	0.170	3.00
GHDR0912P□-680□	68.0	0.190	2.70
GHDR0912P□-820□	82.0	0.215	2.40
GHDR0912P□-101□	100.0	0.245	2.20
GHDR0912P□-121□	120.0	0.270	2.00
GHDR0912P□-151□	150.0	0.335	1.90
GHDR0912P□-181□	180.0	0.540	1.80
GHDR0912P□-221□	220.0	0.610	1.60
GHDR0912P□-271□	270.0	0.680	1.50
GHDR0912P□-331□	330.0	0.770	1.40
GHDR0912P□-391□	390.0	0.900	1.30
GHDR0912P□-471□	470.0	1.000	1.20
GHDR0912P□-561□	560.0	1.250	1.10
GHDR0912P□-681□	680.0	1.450	1.00
GHDR0912P□-821□	820.0	1.720	0.90
GHDR0912P□-102□	1000.0	2.600	0.80

*Inductance drop: 10% typ. at IDC.

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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:-55 ° C/ +105 ° 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: 105± 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: -55 ± 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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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

