

	Product Series Code	GSDRH4	Brand	GOTREND
	File Version	GSDRH4-V1R2	Editor	Teddy
	Established Date	2006.08.14	Description	Common Mode Choke
	Latest Edit Date	2017.02.14	Pages	Page : 2

Features & Application:

- * Good in EMI and fit for large current application
- * Fit for power line & signal line circuit
- * To help you go pass the CE/FCC standard.
- * MB / NB / IPC / LCD Monitor / STB / Hub / Switch...etc.

Part No Example:

GSDRH4 -127	P	T	-	220	M	1.GOTREND Type : GSDRHC
1	2	3	4	5	6	2. Dimension Code: 12x12X7mm
						3.P=Pb free < 1000ppm
						4.Iron Base Pad
						5.[L] Value : Inductance
						4R7=4.7uH; 220=22uH
						6.Tolerance: M=20%,N=+/-35%

Custom Design Spec: @ 1KHz,0.25V

P/N	Inductance	RDC (max)	IDC(Max)

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

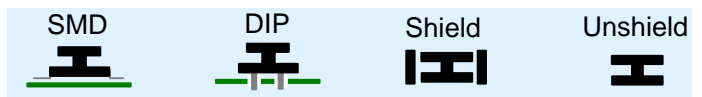
STORAGE LIFE TIME: 12 MONTH @25°C , RH 65%

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

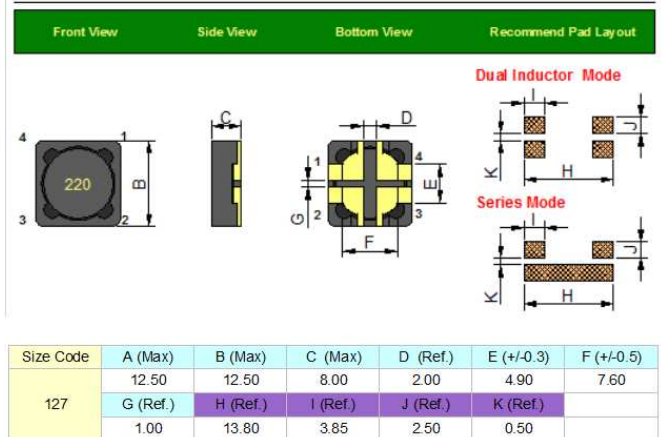


2005 RoHS Compliant - SGS Certified Result

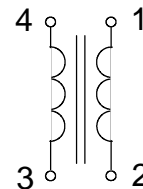
鉛 Pb	鎘 Cd	汞 Hg	六價鉻 Cr+6	溴化聯苯 PBB	溴化聯苯 醚PBDE
<1000ppm	ND	ND	ND	ND	ND

DIMENSION : [mm]

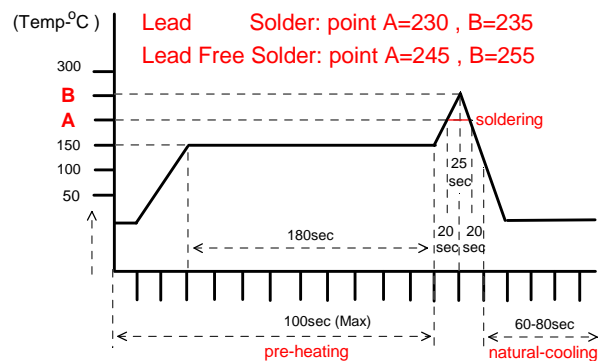
■ Base replaceable without notice !



SCHEMATICS



Recommand Reflow Curve (TIME:Second)



Notice: Iron Soldering: 3 Seconds Max. @260°C



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L CODE	Inductance L1/L2(uH)	Tolerance	D.C.R (ohm) (Max.)	Permissible D.C. Current (Amp) (Max.)
			GSDRH4 - 127PT	GSDRH4 - 127PT
4R7	4.7	30%	0.0316	6.80
220	22.0	20%	0.0864	3.60
330	33.0	20%	0.1296	3.00
470	47.0	20%	0.2000	2.50

- Open Circuit Inductance Test Parameters : @ 1KHz / 0.25V
- DCR limits @ 20°C
- Turns Ratio (1 : 2) : (4 : 3) = 1 : 2

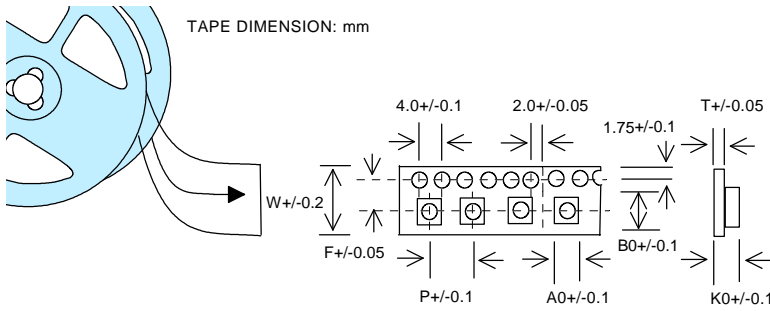


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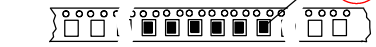
NO	ITEM	TEST CONDITIONS	Sample Qty/pcs	Spec	Result																
1	Dimension 本體相關尺寸	Actual Size ...	10	Meet Spec	ok																
2	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature:-20 ° C/ +85 ° C kept stabilized for 30 minutes each Cycle: 100 Cycles(power off)	10	Elec. no variation Appearance 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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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	Dipping Verification 吃錫性試驗	Temp Control Solder @ Temp 230± 5 ° C / 3 Sec 吃錫面積必須 > 75%	10	Elec. no variation Appearance no deformation	ok																
9	IR Reflow Soldering 焊錫性試驗	Go through real SMT IR-Reflow.... Solder Temp.: 230± 5 ° C Time: 90 Sec. Cycles: x 1	10	Elec. no variation Appearance no deformation	ok																
10	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																
11	Bending Strength 折斷力試驗		10	Elec. no variation Appearance no deformation	ok																
12	Flexure Strength 彎曲試驗		10	Elec. no variation Appearance no deformation	ok																
13	Terminal Strength 推/拉力試驗		10	After solder between copper plate and terminals of coil, push in two directions Of X,Y with 2.0kg must no crack	ok																
14	High-Voltage 高壓電擊試驗	100 V DC between core & winding	10	Elec. no variation Appearance no deformation	ok																
15	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																



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End the Tape : Min. 30 cm Blank Tape Direction



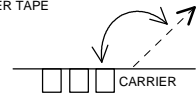
Start the Tape : Min. 30cm Blank Tape

PEEL STRENGTH OF COVER TAPE

STRENGTH : 10-100 g

VELOCITY : 300mm/min.

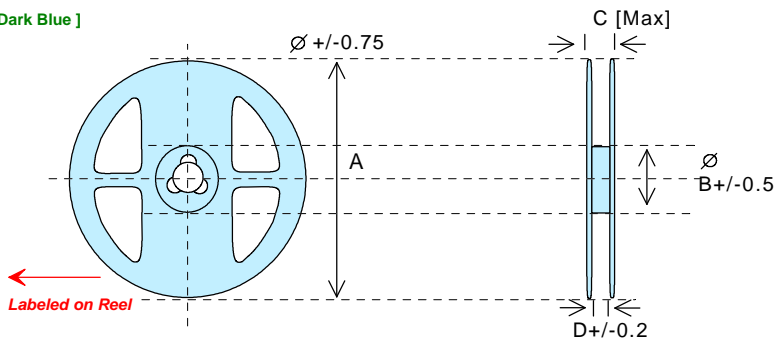
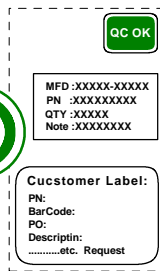
ANGLE : 165-180° FROM THE TAPE ADHESIVE FACE



SIZE/mm	W	P	A ₀	B ₀	K ₀	T	F
127	24.00	16.00	12.60	12.60	8.20	0.40	11.5

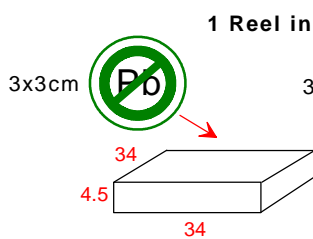
Reel Dimensions: mm [Reel Color 7"=White , 13"=Dark Blue]

RoHS
Green Product Label
→ 3x3cm

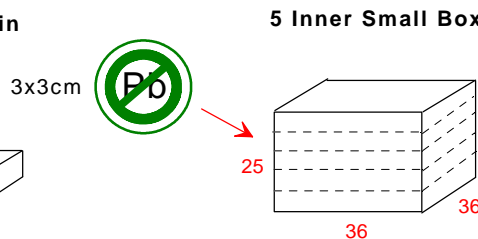


SIZE / mm	A	B	C	D	REEL SIZE	QTY/REEL
127	330	100	30.4	24.4	13"	0.5K/Reel

BOX Package: Unit: cm



Inner Small Box



Outer Large Box