	Product Series Code	GTHW	Brand	GOTREND
	File Version	GTHW3225PA-222T-V1R0	Editor	Teddy
	Established Date	2017.11.09	Description	Common Mode Filter
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Features & Application:

- * Common Mode Filter for high speed signal line
- * Mobile Device / Handheld Device / LowProfile Device
- * To help you go pass the CE/FCC standard.

Part No Example:

GTHW 3225 P A - 222 T
 1 2 3 4 5 6

1. GTHW : GOTREND Series Code
2. 3225 : Length 3.2 mm X Width 2.5 mm
3. [P] : Pb free <1000ppm
4. [A] : Material Code
5. 222 : Impedance [ohm] @ 100MHz = 2200 ohm
5. T : Tolerance T = Typical

Test Equipment :

- * HP4291A-Z, 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%

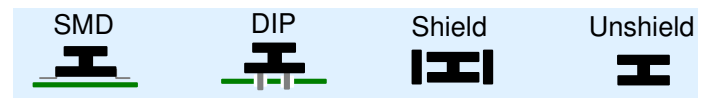
Operating & Storage Condition:

OPERATING TEMP:-40~+125°C
 STORAGE TEMP:-40~+125°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 condensates
 - * Please be careful for the stress to this product by board flexure or something after the mounting.

Product Structure

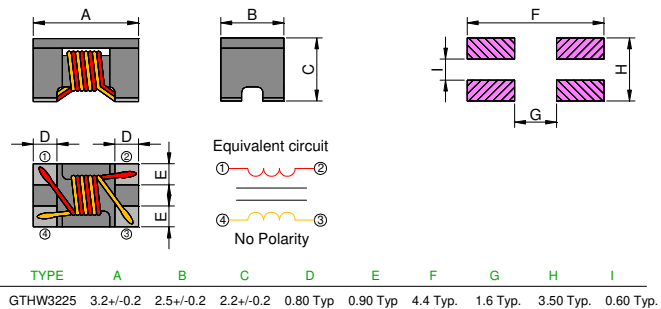


2005 RoHS Compliant - SGS Certified Result

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

DIMENSION : [mm]

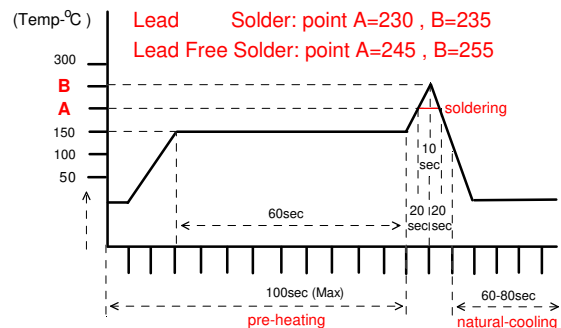
Recommend Pad Layout [mm]



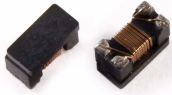
Size Code & Package Quantity:

JIS CODE	EIA CODE	PCS / REEL	REEL / BOX
3225	1210	2000	5

Recomand Reflow Curve (Time : second)



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



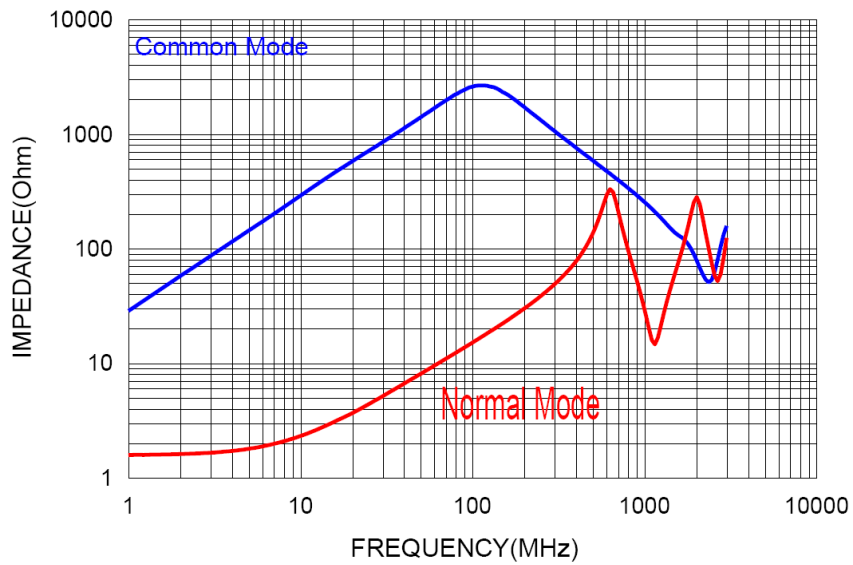
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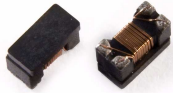
Electrical Characteristics :

Part No.	Impedance (Ohm) (at 100MHz)	DCR (Ohm) (Max.)	Rated Current (mA) (Max.)	Rated Voltage (V) (Typ.)	Insulation Resistance (M Ohm) (Min.)
GTHW3225PA-222T	2200+/-25%	0.6	100	50	10

* Rated Current : Typical Heat Rating DC Current would cause an approximately ΔT of 40°C

Impedance vs. Frequency Characteristics :

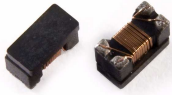




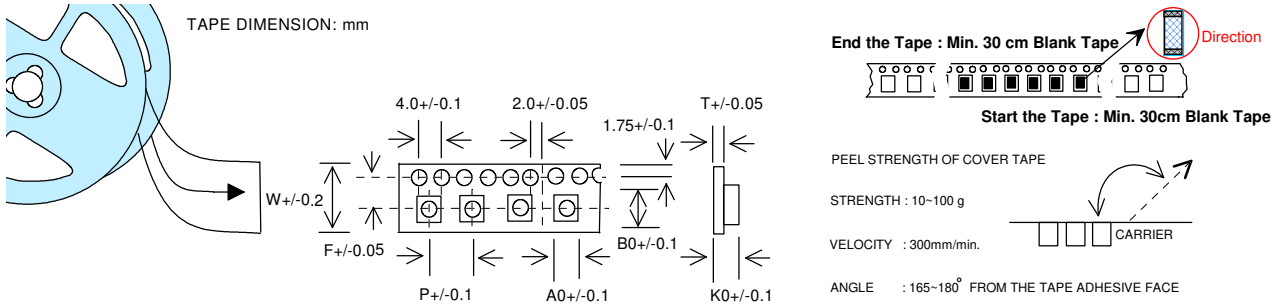
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Reliability Test Result :

NO	ITEM	TEST CONDITIONS	REMARKS															
1	Thermal Shock (Temperature Cycle) 溫度循環試驗	Temperature: -40 ° C/ +125 ° C kept stabilized for 30 minutes each Cycle: 100 Cycles	Inductance value shall be within $\pm 10\%$ of the initial value. Q-factor shall be within $\pm 30\%$ of the initial value. Impedance shall be within $\pm 20\%$ of the initial value. DCR value shall be within $\pm 20\%$ of the initial value.															
2	Humidity Resistance 耐濕試驗	Humidity: 90%~ 95% RH Temperature: 40 \pm 2 ° C Test Time: 1000 \pm 12 Hours	■NO.1~4 Measurement: After placing for 24 hours (min.)															
3	High Temperature 耐熱試驗	Temperature: 125 \pm 2 ° C Humidity: 20% Testing Time: 1000 \pm 12 Hours	■NO.2~3 Applied current(spec): Rated current(maximum value)															
4	Low Temperature 耐寒試驗	Temperature: -40 \pm 2 ° C Time: 1000 \pm 12 Hours	■NO.5 Cycle: 5 cycles															
5	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\pm 2 ° C</td> <td>95~100%RH</td> <td>3.0Hr</td> </tr> <tr> <td>2</td> <td>55\pm 2 ° C</td> <td>95~96%RH</td> <td>9.5Hr</td> </tr> <tr> <td>3</td> <td>25\pm 2 ° C</td> <td>95~100%RH</td> <td>9.5Hr</td> </tr> </tbody> </table>		Step	Temp	Humidity	Time	1	25 \pm 2 ° C	95~100%RH	3.0Hr	2	55 \pm 2 ° C	95~96%RH	9.5Hr	3	25 \pm 2 ° C	95~100%RH
Step	Temp	Humidity	Time															
1	25 \pm 2 ° C	95~100%RH	3.0Hr															
2	55 \pm 2 ° C	95~96%RH	9.5Hr															
3	25 \pm 2 ° C	95~100%RH	9.5Hr															
6	Vibration 振動性試驗	Frequency: 10Hz~55Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 Hours each																
7	IR Reflow Soldering 焊錫性試驗	Solder: H63A(eutectic solder) Solder Temp.: 230 \pm 5 ° C Time: 6 minutes Cycles: x 1	Impedance(inductance) shall be within \pm 20% of the initial value. DCR value shall be within $\pm 20\%$ of the initial value.															
8	Soldering Heat Resistance 耐熱 焊性試驗	Preheat: 120 ~ 150 ° C (60 sec) Solder: H63A(eutectic solder) Solder Temp.: 260 \pm 5 ° C Flux: Rosin Dip time: 10 \pm 1 seconds	The chip must have no cracks. More than 75% of the terminal electrode must be covered with solder.															
9	Bending Strength 折斷力試驗		The terminal electrode and the ferrite must not be damaged by the forces applied on the test conditions. 3225 : $\geq 1.5\text{kg}$															
10	Flexure Strength 彎曲試驗		No mechanical damage shall be noticed even when the board is bent 2 mm															
11	Terminal Strength 拉力試驗		The terminal electrode and the ferrite must not be damaged by the forces applied on the test conditions. 3225: $\geq 1.5\text{ kg}$															

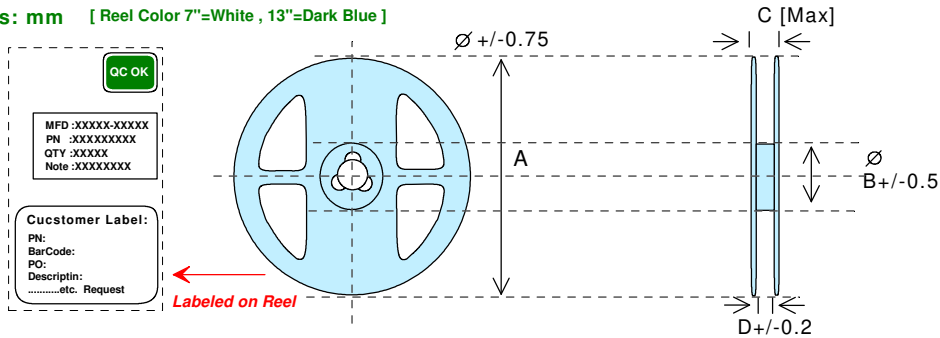


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SIZE/mm	W	P	A0	B0	K0	T	F
3225	8.00	4.00	2.88	3.65	2.50	0.23	3.50

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



SIZE / mm	A	B	C	D	QTY/REEL
3225	178	60	12	9	2K

BOX Package: cm

