	Product Series Code	GTHW	Brand	GOTREND
	File Version	GTHW3225PA-800T-V1R0	Editor	Teddy
	Established Date	2019.05.09	Description	Common Mode Filter
	Latest Edit Date	2019.05.09	Pages	Page : 2

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.

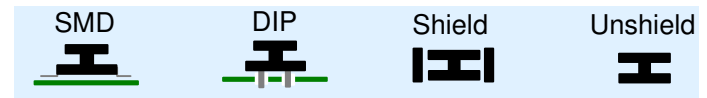
Part No Example:

GTHW 3225 P A - 800 T

 1 2 3 4 5 6

1. GTHW : GOTRED Series Code
2. 3225 : Length 3.2 mm x Width 2.5 mm
3. [P] : Pb free <1000ppm
4. [A] : Material Code
5. 800 : Impedance [ohm] @ 100MHz = 80 Ohm
6. T : Taping and Reel

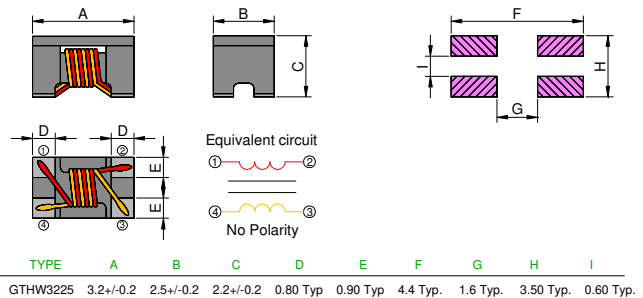
Product Structure



2005 RoHS Compliant - SGS Certified Result

Pb	Cd	Hg	Cr+6	PBB	PBDE
<1000ppm	ND	ND	ND	ND	ND

DIMENSION : [mm]



Test Equipment :

- * Agilent E4991A - Impedance
- * Chroma 16502 - DC Resistance
- * Agilent 4339B - Insulation Resistance

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 (Including self - temperature rise)

Storage Temp : -40 ~ +125°C (On board)

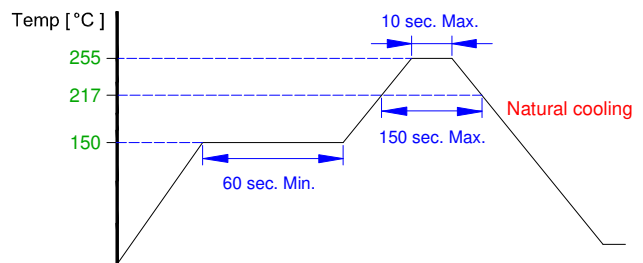
Storage Life Time : 12 Month @ 25°C , RH 65%

Attention & Caution :

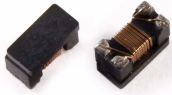
Please avoid following matters :

- * 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.

Recommend IR Reflow Curve :



Notice : Iron Soldering , Solder < 30 Watt , Direct touch the terminal x 3 Sec. Max. @ 350 C



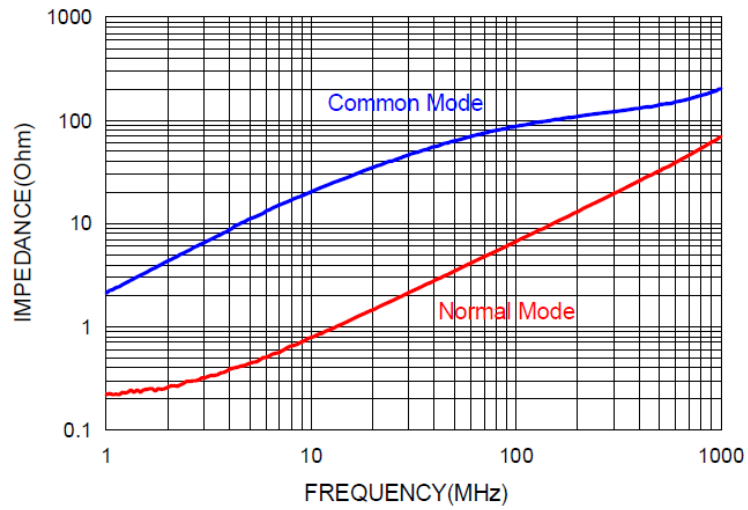
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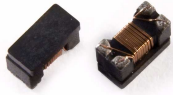
Electrical Characteristics :

Part No.	Common Mode Impedance (Ohm) @100MHz	DCR (Ohm)	Rated Current (mA)	Rated Volt. (Vdc)	Withstand Volt. (Vdc)	Insulation Resistance (M Ohm)
GTHW3225PA-800T	80+/-25%	0.15 Max.	400 Max.	20 Max.	20 Max.	10 Min.

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

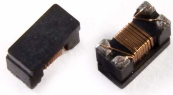
Impedance vs. Frequency Characteristics :



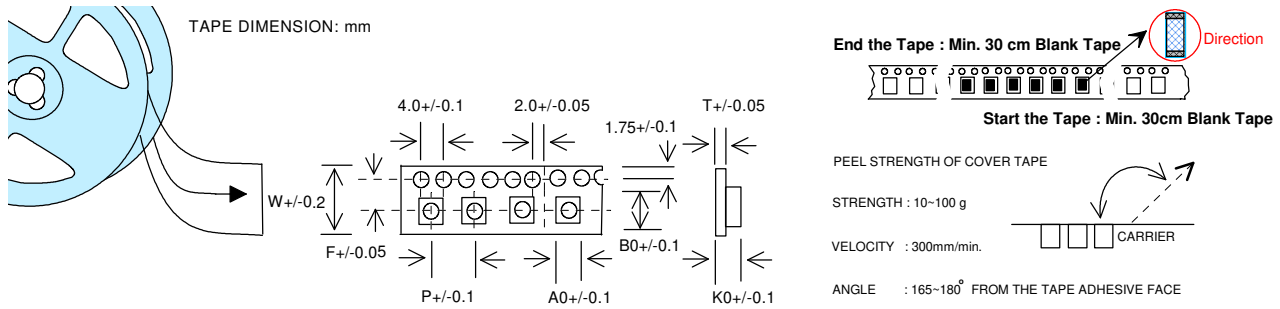


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Reliability Test Result :																			
NO	ITEM	TEST CONDITIONS	REMARKS																
1	Thermal Shock (Temperature Cycle)	Temperature: -40 ° C/ +125 ° C kept stabilized for 30 minutes each Cycle: 100 Cycles	Inductance value shall be within $\pm 10\%$ 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	Humidity: 90%~ 95% RH Temperature: 40 \pm 2 ° C Test Time: 1000 \pm 12 Hours	<p>■NO.1~4 Measurement: After placing for 24 hours (min.)</p> <p>■NO.2~3 Applied current(spec): Rated current(maximum value)</p> <p>■NO.5 Cycle: 5 cycles</p>																
3	High Temperature	Temperature: 125 \pm 2 ° C Humidity: 20% Testing Time: 1000 \pm 12 Hours																	
4	Low Temperature	Temperature: -40 \pm 2 ° C Time: 1000 \pm 12 Hours																	
5	Temperature and Humidity Cycle	<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	9.5Hr
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	Frequency: 10Hz~55Hz Amplitude: 1.5mm Direction: X,Y,Z Time: 2 Hours each																	
7	IR Reflow Soldering	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	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		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		No mechanical damage shall be noticed even when the board is bent 2 mm																
11	Terminal Strength		The terminal electrode and the ferrite must not be damaged by the forces applied on the test conditions. 3225 : $\geq 1.5\text{ kg}$																

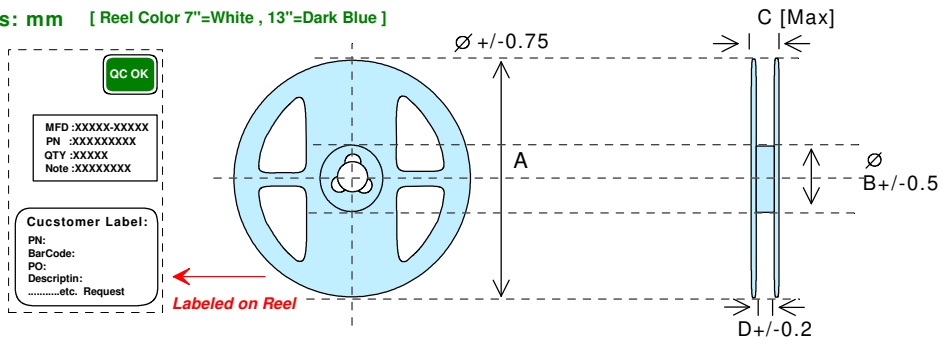


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SIZE/mm	W	P	A0	B0	K0	T	F
3225	8.00	4.00	2.88	3.65	2.50	0.23	3.50

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

