



Product Series Code	GTHW	Brand	GOTREND
File Version	GTHW-V2R1	Editor	Robert
Established Date	2002.02.23	Description	Common Mode Filter 0805 / 1206
Latest Edit Date	2005.08.12	Pages	Page : 2

Features & Application:

- * Common Mode Filter for high speed signal line
- * Fit for signal line circuit : USB2.0 / IEEE1394
- * To help you go pass the CE/FCC standard.
- * Mobil Device / Handheld Device / LowProfile Device

Part No Example:

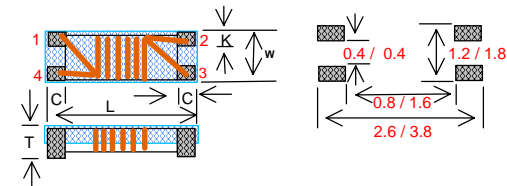
GTHW - 3216 - P - K - 601 - T
 1 2 3 4 5 6

1. GTHW : GOTRED Series Code
2. 3216 : Length 3.2mm X Width 1.6mm
3. P : Pb free <1000ppm
4. K : Material Code
5. 900 : Impedance [ohm] @ 100MHz = 900 ohm
6. T : Tolerance T=Typical

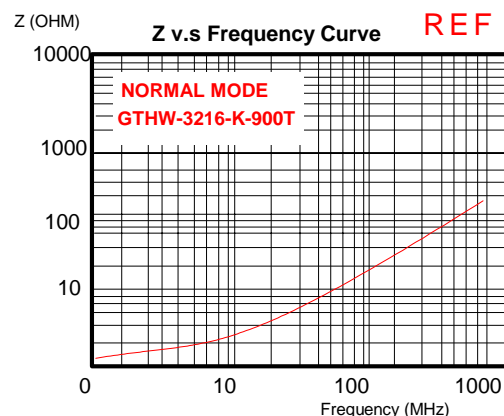
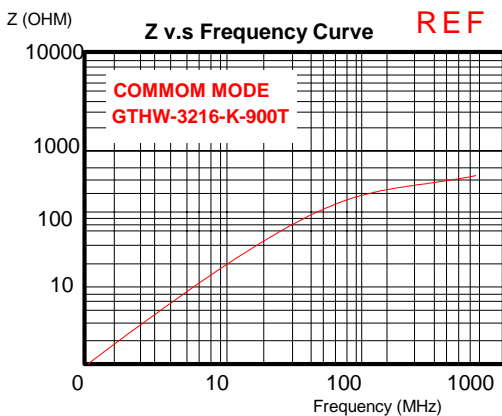
Product Structure

SMD	DIP	Shield	Unshield		
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

Dimensions: [mm] Recommad Pad Layout: 2012 / 3216



Type	L	W	T	C / K
GTHW2012	2.0+/-0.2	1.2+/-0.2	1.2+/-0.2	0.4+/-0.2
GTHW3216	3.2+/-0.2	1.6+/-0.2	2.0+/-0.2	0.6+/-0.2



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%

Size Code & Package Quantity:

JIS CODE	EIA CODE	PCS / REEL	REEL / BOX
2012	0805	3000	5
3216	1206	2500	5



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Operatiing & Storage Condition:

OPERATING TEMP:-40~+85°C

STORAGE TEMP:-40~+85°C

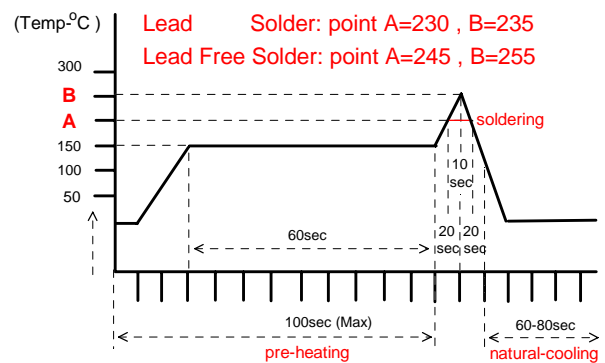
STORAGE LIFE TIME: 12 MONTH @25°C , RH 65%

Attention & Caution:

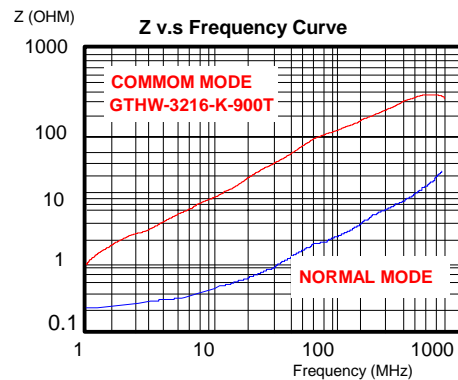
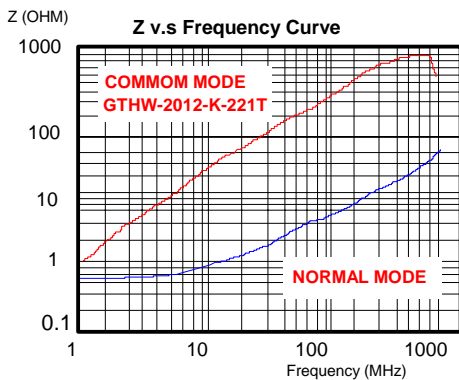
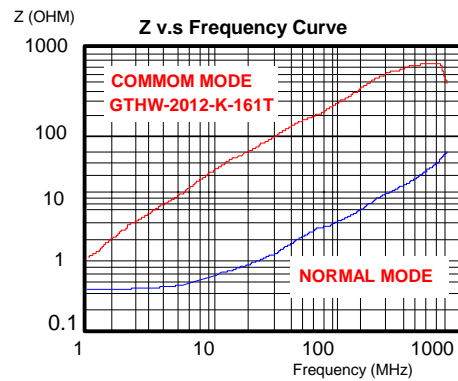
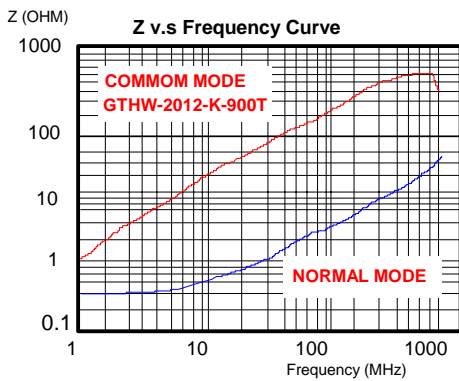
Please avoid following matters:

- * 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.

Recommand Reflow Curve (TIME:Second)

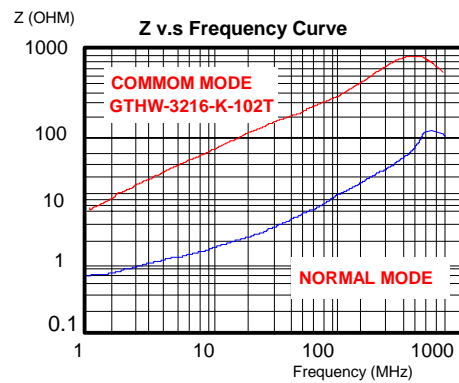
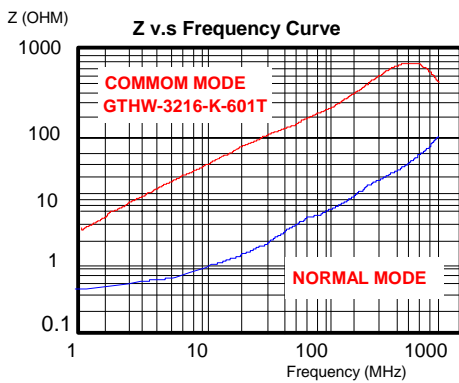
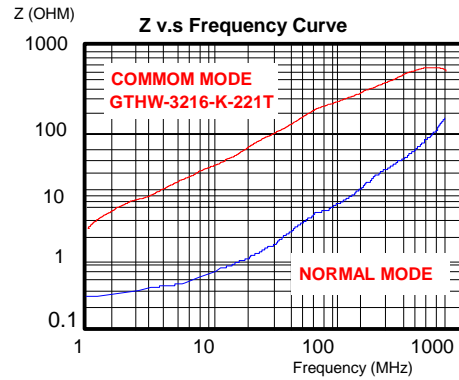
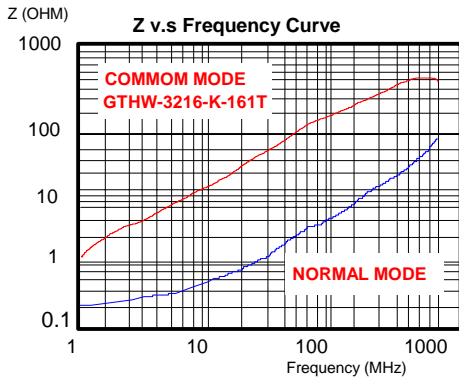


Notice: Iron Soldering: 3 Seconds Max. @260°C





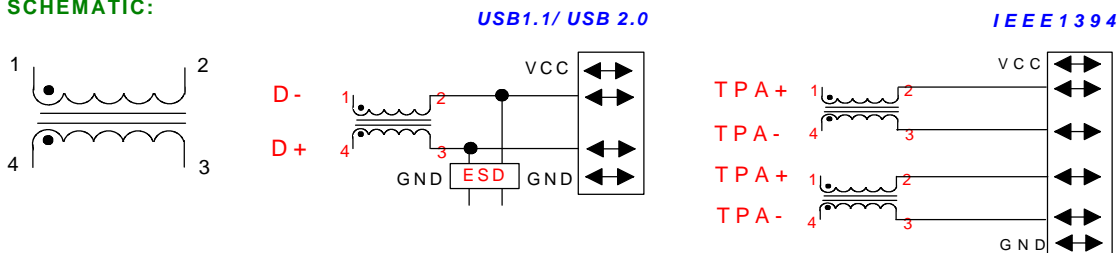
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GTHW-XXXX-X-XXXT Common Mode Choke for USB2.0 / IEEE1394

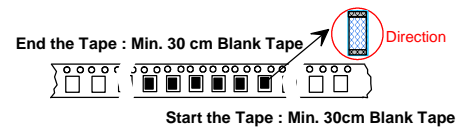
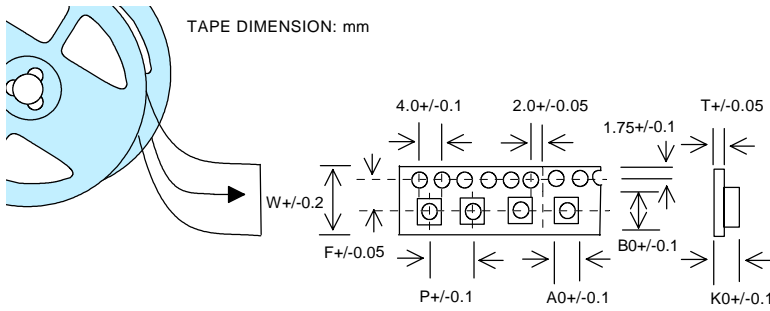
Part No.	Common Mode (Min.) impedance (ohm)@100MHz	Common Mode (Typ.) impedance (ohm)@100MHz	Rated / Withstanding Voltage V(DC)	DCR (ohm) (max)	Rated Current (mA) (max)	Insulation Res. Min. (m ohm)
GTHW - 2012 - - 670T	30	67	50 / 125	0.25	400	10
GTHW - 2012 - - 900T	60	90	50 / 125	0.35	330	10
GTHW - 2012 - - 161T	115	160	50 / 125	0.35	330	10
GTHW - 2012 - - 221T	145	220	50 / 125	0.40	300	10
GTHW - 2012 - - 361T	200	360	50 / 125	0.40	280	10
GTHW - 3216 - - 900T	60	90	50 / 125	0.30	370	10
GTHW - 3216 - - 161T	115	160	50 / 125	0.40	340	10
GTHW - 3216 - - 221T	145	220	50 / 125	0.50	310	10
GTHW - 3216 - - 601T	425	600	50 / 125	0.80	260	10
GTHW - 3216 - - 102T	700	1000	50 / 125	1.00	230	10
GTHW - 3216 - - 222T	1560	2200	50 / 125	1.20	200	10

SCHEMATIC:





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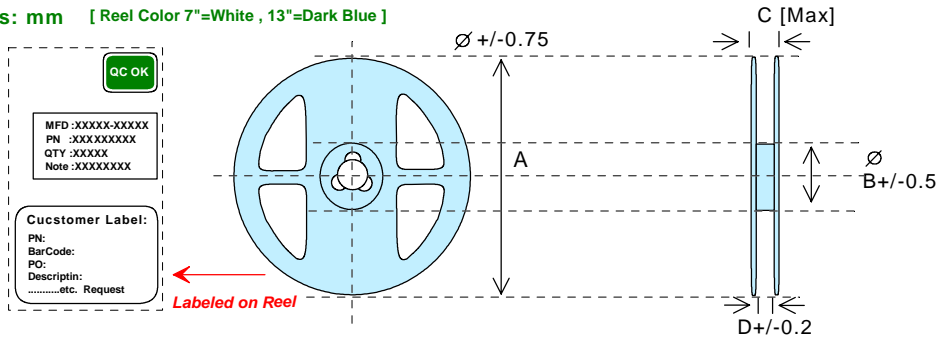
PEEL STRENGTH OF COVER TAPE
STRENGTH : 10-13 g

VELOCITY : 300mm/min.

ANGLE : 165-180° FROM THE TAPE ADHESIVE FACE

SIZE/mm	A	B	C	D	E	F	G	H	I	J
2012	4.00	1.54	2.32	1.75	2.00	4.00	8.00	3.50	1.35	0.20
3216	4.00	1.94	3.54	1.75	2.00	4.00	8.00	3.50	1.29	0.20

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



SIZE / mm	A	B	C	D	QTY/REEL
2012	178	60	12	1.5	3K
3216	178	60	12	1.5	2.5K

BOX Package: cm

