

LPF Series



Chilisin offer multilayer devices of Low-Temperature Cofired Ceramics (LTCC) for applications in wireless communication as WLAN, Bluetooth etc. Our commitment is to meet your goals through extensive technological innovation, excellent quality, short lead time and high volume production capability.

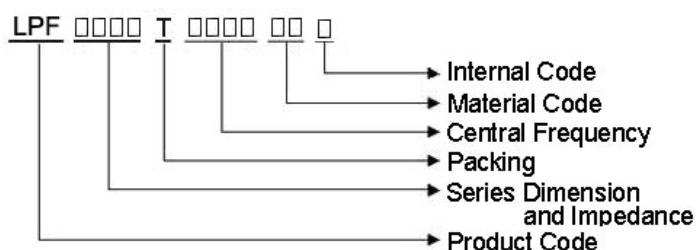
Features

- RoHS Compliant
- Miniaturized
- Low insertion loss
- High rejection at lower stop band and 2nd harmonic band

Applications

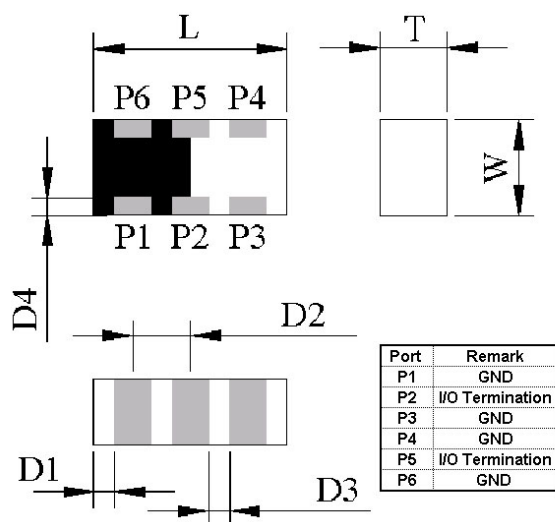
- 2.4GHz ISM band WLAN, Bluetooth and WIMAX

Product Identification

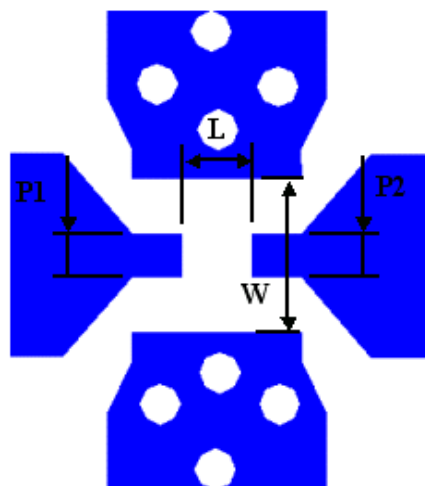


- Series Dimension and Impedance:
1608= 1.6mm*0.8 mm , Impedance: 50Ω
- Packing : T=Taping , B=Bulk
- Central Frequency: 2450=2.45GHz

Shapes and Dimensions



Recommended Pattern



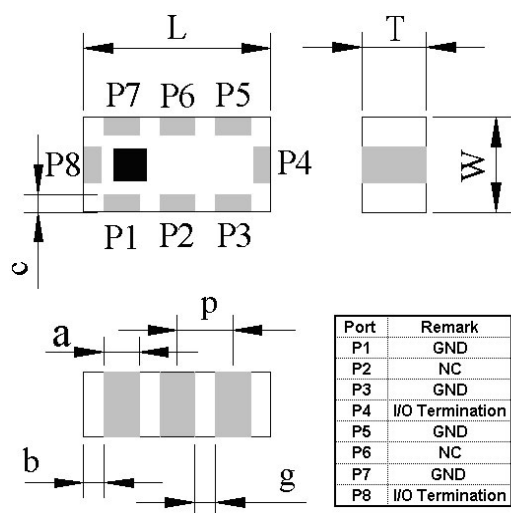
Dimension in mm

TYPE	L	W	T	P1~P6	D1	D2	D3	D4
LPF1608T2450HA1	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	0.1±0.1	0.55±0.1	0.25±0.1	0.15±0.1
LPF1608T2450HA3	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	0.1±0.1	0.55±0.1	0.25±0.1	0.15±0.1
LPF1608T2450NA4	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	0.1±0.1	0.55±0.1	0.25±0.1	0.15±0.1
LPF1608T3500HA1	1.6±0.1	0.8±0.1	0.6±0.1	0.3±0.1	0.1±0.1	0.55±0.1	0.25±0.1	0.15±0.1

Dimension in mm

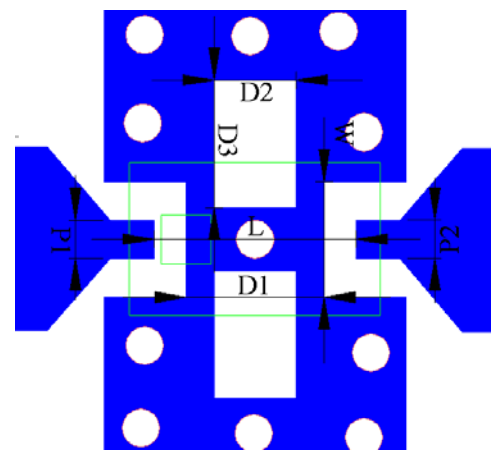
TYPE	L	W	P1	P2
LPF1608T2450HA1	0.5±0.1	1.1±0.1	0.3±0.1	0.3±0.1
LPF1608T2450HA3	0.5±0.1	1.1±0.1	0.3±0.1	0.3±0.1
LPF1608T2450NA4	0.5±0.1	1.1±0.1	0.3±0.1	0.3±0.1
LPF1608T3500HA1	0.5±0.1	1.1±0.1	0.3±0.1	0.3±0.1

Low Temperature Cofired Ceramic LTCC Series



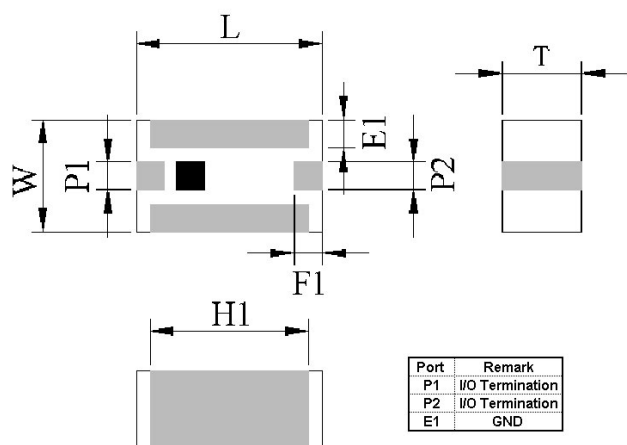
Dimension in mm

TYPE	L	W	T	a	b	c	p	g
LPF2012T2450HA1	0.3±0.1	1.25±0.1	0.6±0.15	0.3±0.1	0.2±0.15	0.2±0.15	0.65±0.1	0.35±0.1
LPF2012T2450HA3	2.0±0.1	1.25±0.1	0.6±0.15	0.3±0.15	0.2±0.15	0.2±0.15	0.65±0.1	0.35±0.1



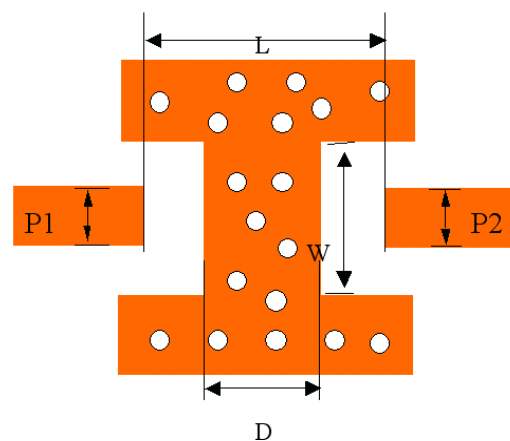
Dimension in mm

TYPE	L	W	P1-P2	D1	D2	D3
LPF2012T2450HA1	1.6±0.1	0.9±0.1	0.3±0.1	1.1±0.1	0.65±0.1	1.0±0.1
LPF2012T2450HA3	1.6±0.1	0.9±0.1	0.3±0.1	1.1±0.1	0.65±0.1	1.0±0.1



Dimension in mm

TYPE	L	W	T	P1	P2	E1	F1	H1
LPF2012T2450HA2	2.0±0.1	1.25±0.1	0.6±0.15	0.3±0.1	0.3±0.1	0.3±0.2	0.3±0.2	1.7±0.2



Dimension in mm

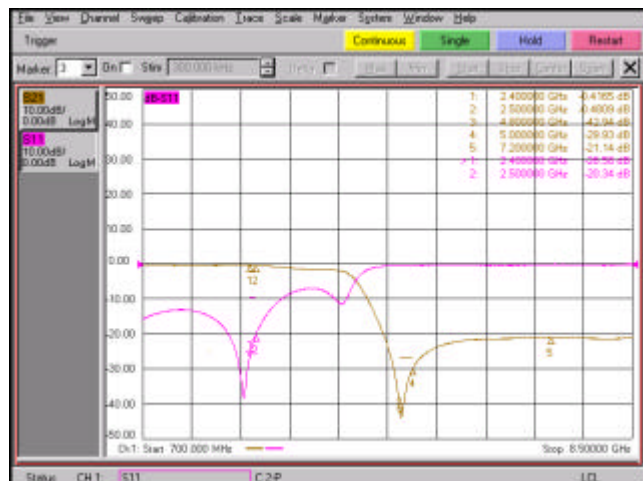
TYPE	L	W	P1	P2	D
LPF2012T2450HA2	1.6±0.1	0.9±0.1	0.3±0.1	0.3±0.1	0.5±0.1

Electrical Characteristics

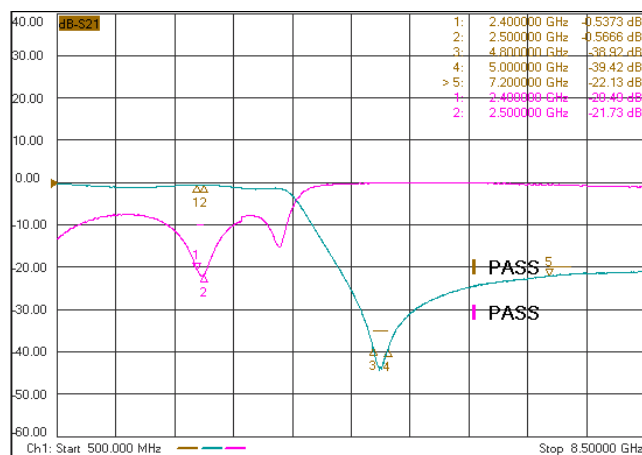
Part Number	Pass Band (GHz)	Impedance (Ω)	VSWR	IL (dB)	Ripple (dB)	Attenuation
LPF1608T2450HA1	2.4~2.5	50	2	0.5	0.6	27dB Min @ 4800~5000MHz 20dB Min @ 7200~7500MHz
LPF1608T2450HA3	2.4~2.5	50	2	0.6	0.6	35dB Min @ 4800~5000MHz 20dB Min @ 7200~7500MHz
LPF1608T2450NA4	2.4~2.5	50	2	0.5	0.6	35dB Min @ 4800~5000MHz 25dB Min @ 7200~7500MHz
LPF1608T3500HA1	3.4~3.7	50	2	0.6	0.6	25dB Min @ 2fo 18dB Min @ 3fo
LPF2012T2450HA1	2.4~2.5	50	2	0.45	1.0	27dB Min @ 2fo 25dB Min @ 3fo
LPF2012T2450HA 2	2.4~2.5	50	2	0.45	1.0	27dB Min @ 2fo 25dB Min @ 3fo
LPF2012T2450HA3	2.4~2.5	50	2	0.6	1.0	35dB Min @ 2fo 30dB Min @ 3fo

Test Instruments : Agilent E5071B/N5230A Vector Netowrk Analyzer

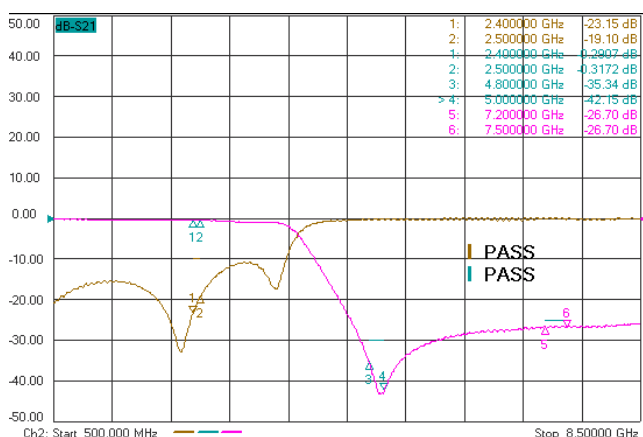
LPF1608T2450HA1



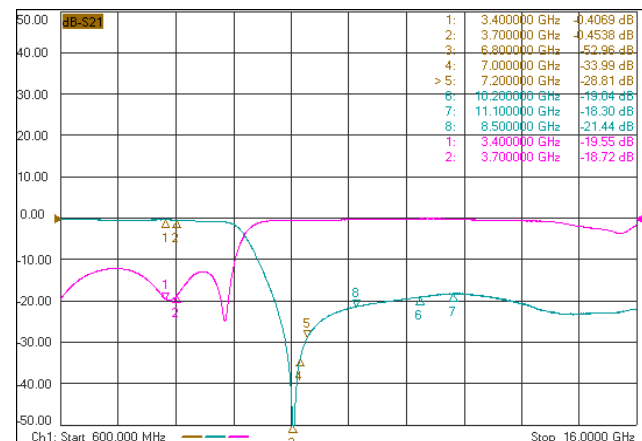
LPF1608T2450HA3



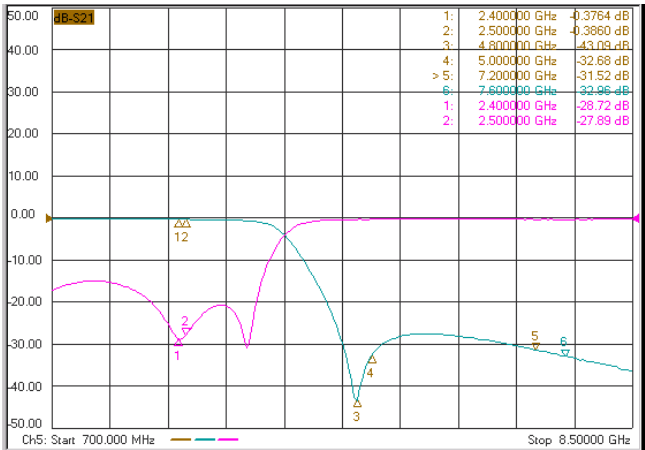
LPF1608T2450NA4



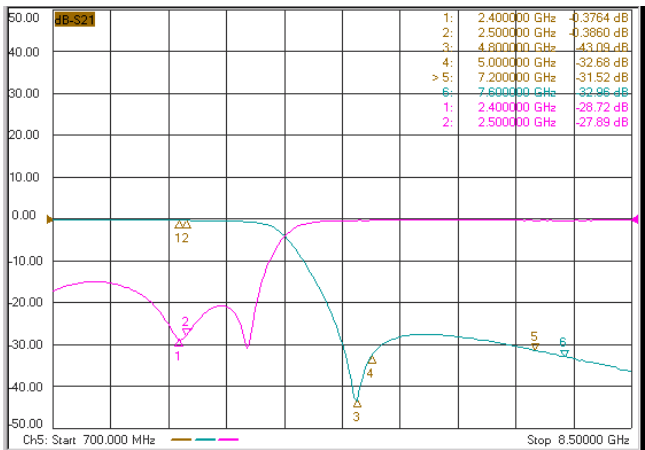
LPF1608T3500HA1



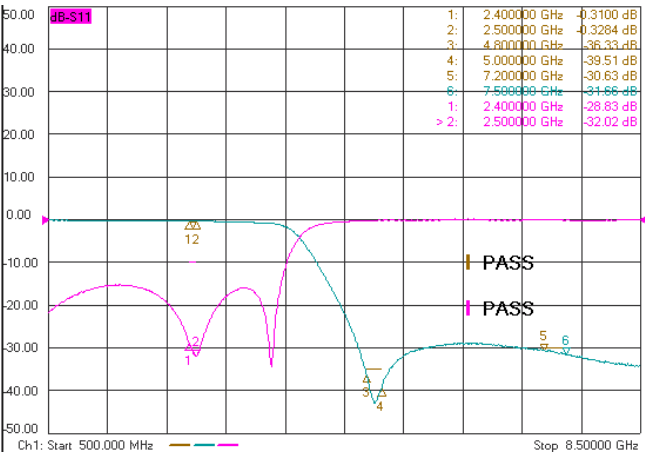
LPF2012T2450HA1



LPF2012T2450HA2

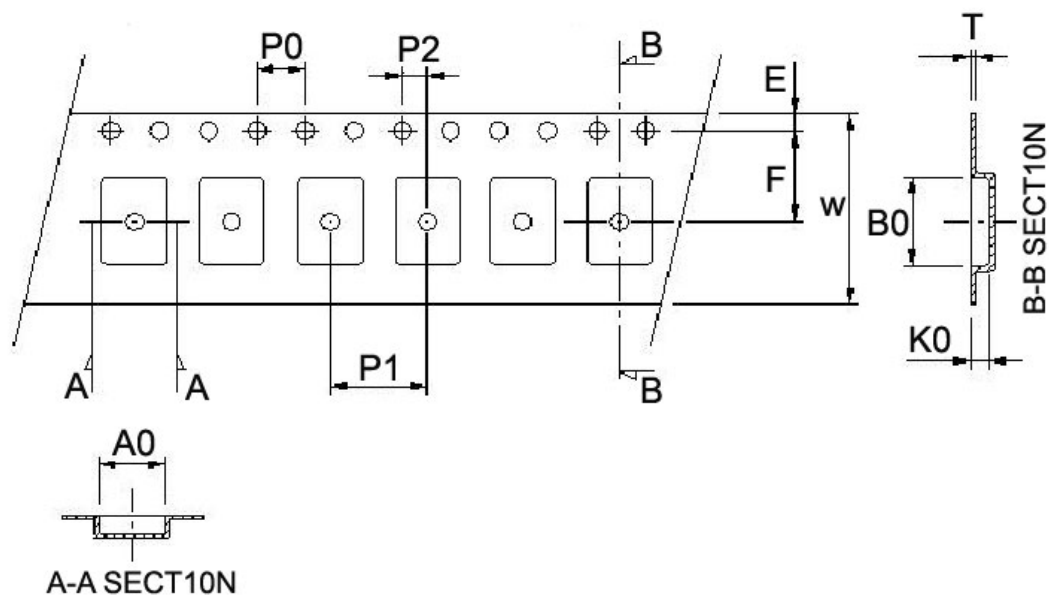


LPF2012T2450HA3

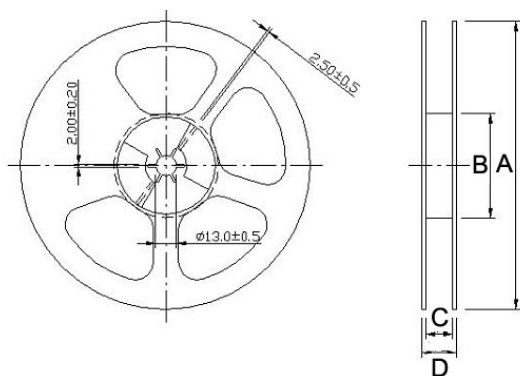


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity
	A0	B0	T	E	W	P1	P2	F	K0	A	B	C	D Max	PCS / REEL
LPF1608TXXXXHAX	0.95	1.80	0.22	1.75	8.1	4	2.0	3.5	0.75	178	62	8.4	14.4	4000
LPF1608TXXXXNAX	0.95	1.80	0.22	1.75	8.1	4	2.0	3.5	0.75	178	62	8.4	14.4	4000
LPF2012TXXXXHAX	1.42	2.25	0.22	1.75	8.1	4	2.0	3.5	0.8	178	62	8.4	14.4	4000