

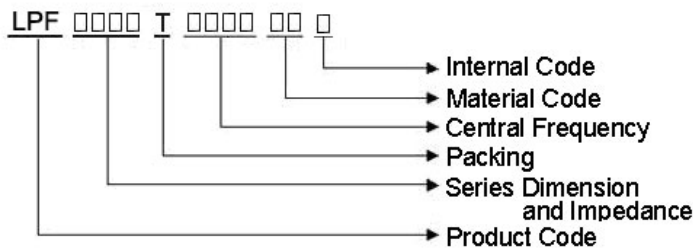
## LPF Series



### Features

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

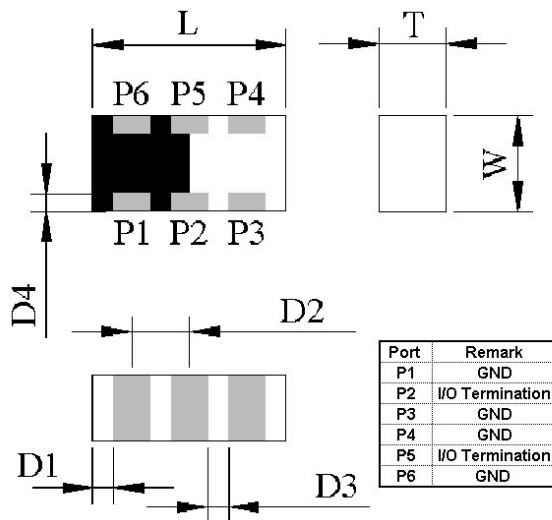
### Product Identification



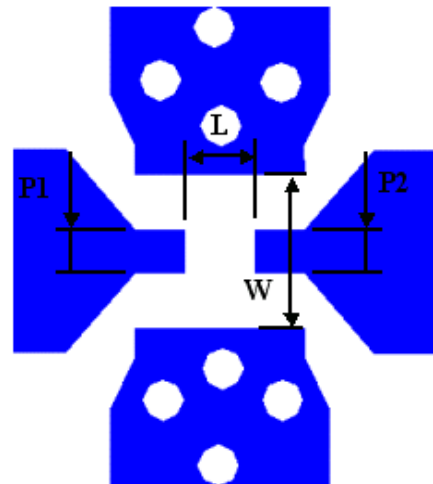
### Applications

- 2.4GHz ISM band WLAN, Bluetooth and WIMAX

### Shapes and Dimensions



### Recommended Pattern

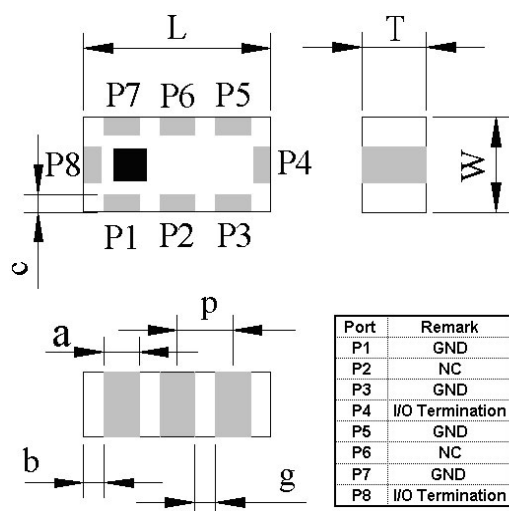


### Dimension in mm

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

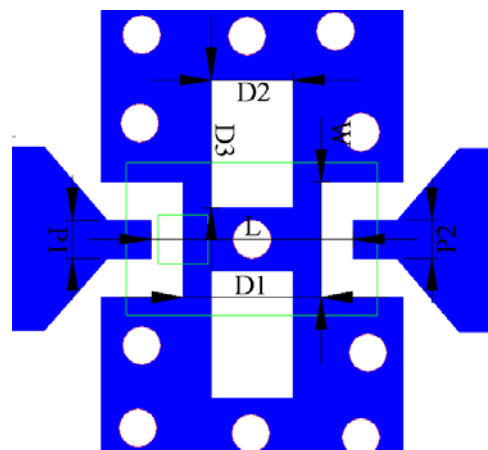
### Dimension in mm

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



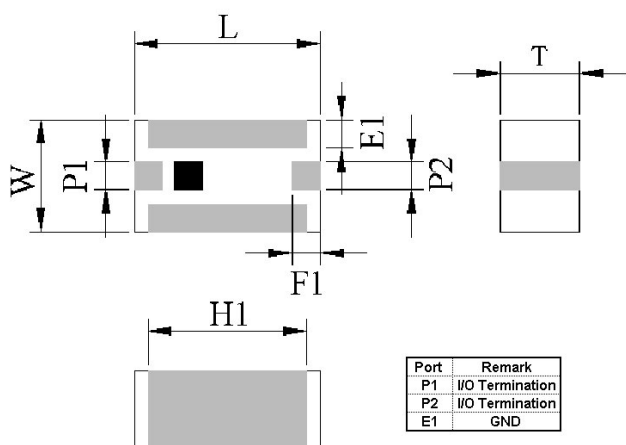
Dimension in mm

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



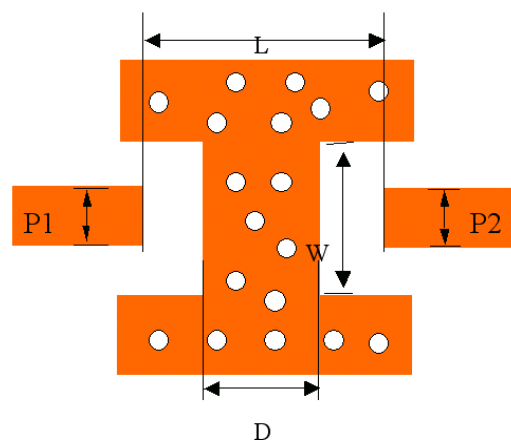
Dimension in mm

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

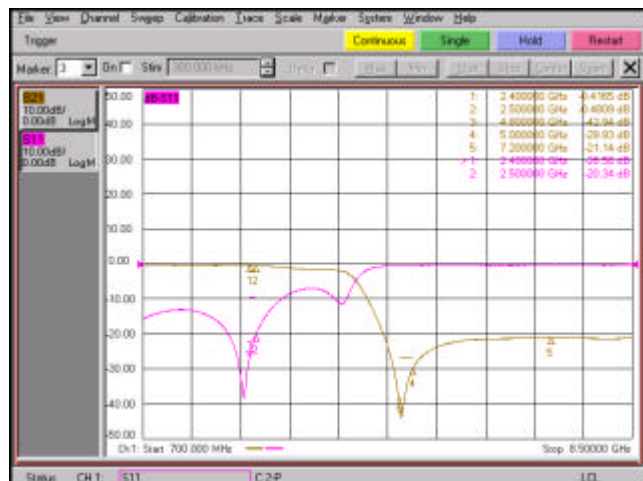
TYPE	L	W	P1	P2	D
LPF2012T2450HA2	1.6±0.1	0.9±0.1	0.3±0.1	0.3±0.1	0.5±0.1

## Electrical Characteristics

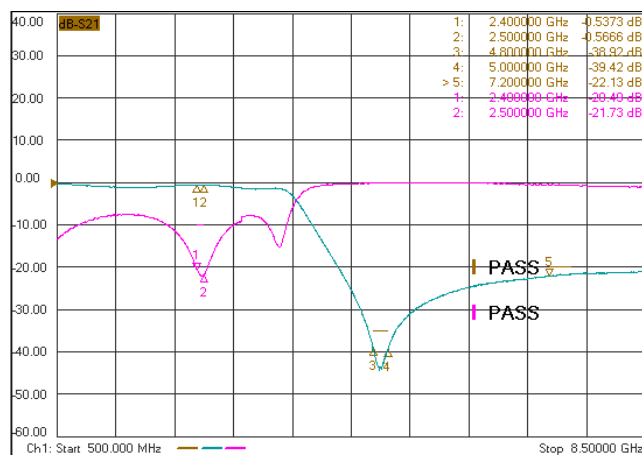
Part Number	Pass Band (GHz)	Impedance ( )	VSWR	IL (dB)	Ripple (dB)	Attenuation
LPF1608T2450HA1	2.4~2.5	50	2	0.5	0.6	27dB Min @ 4800~5000MHz 20dB Min @ 7200~7500MHz
LPF1608T2450HA3	2.4~2.5	50	2	0.6	0.6	35dB Min @ 4800~5000MHz 20dB Min @ 7200~7500MHz
LPF1608T2450NA4	2.4~2.5	50	2	0.5	0.6	35dB Min @ 4800~5000MHz 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

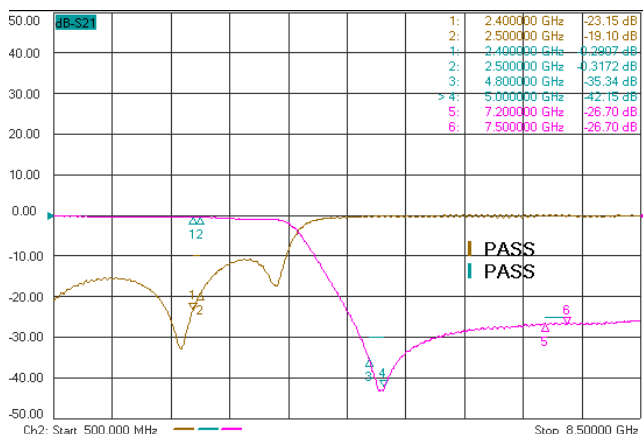
**LPF1608T2450HA1**



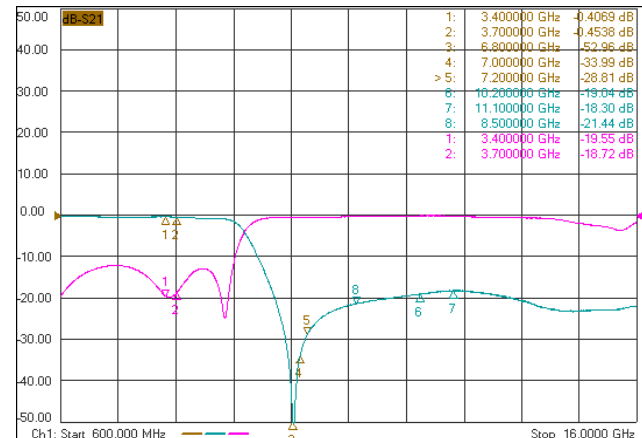
**LPF1608T2450HA3**



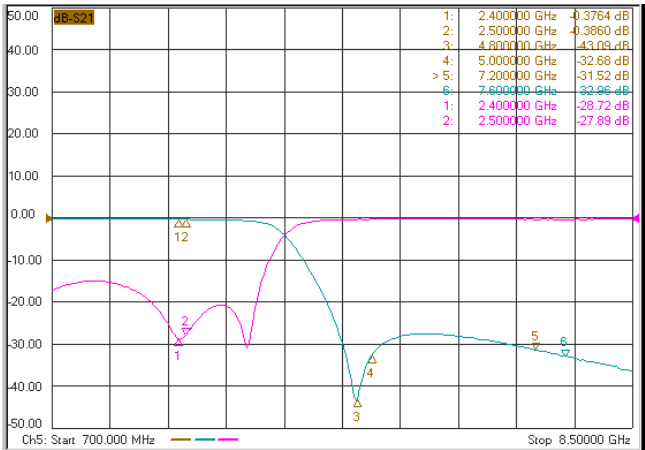
**LPF1608T2450NA4**



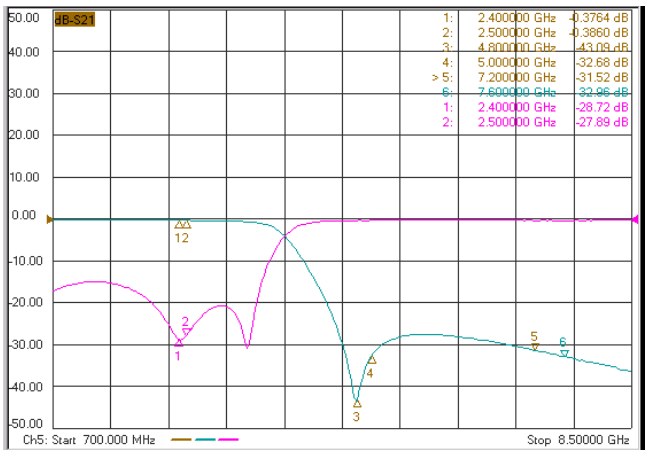
**LPF1608T3500HA1**



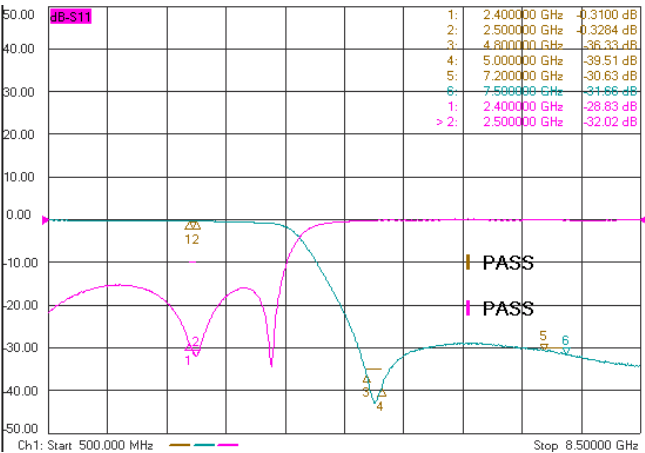
LPF2012T2450HA1



LPF2012T2450HA2

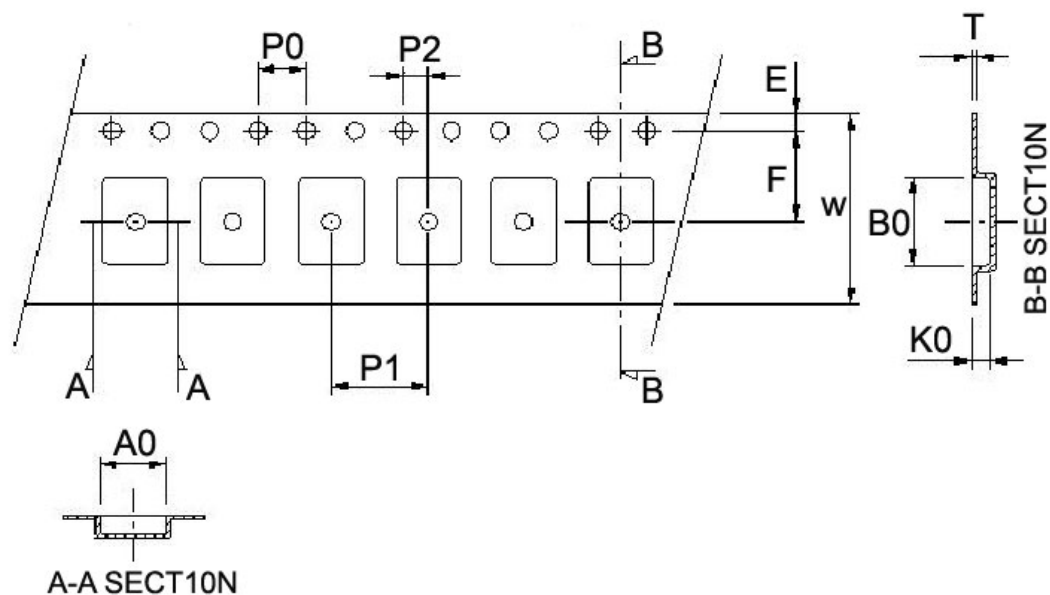


LPF2012T2450HA3

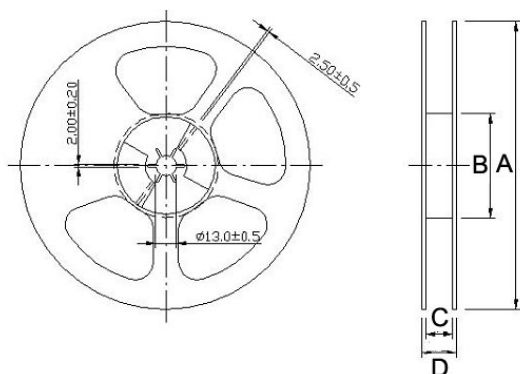


## Packaging Specifications

### 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