

# LTCC 高通滤波器 (High Pass Filter)

## HT-HFCG-2750+

### Features

- Low insertion loss.
- Good rejection.
- LTCC Construction.
- temperature stable.
- Small size.

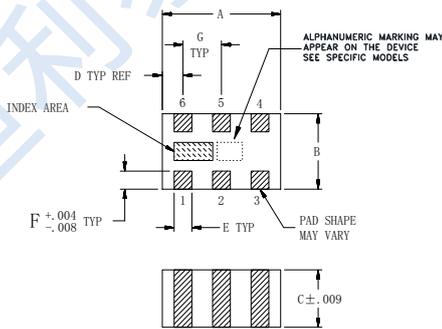
### Applications

- Test and Measurement Equipment.
- Transmitters / Receivers.
- Telecommunications and broadband wireless system.

### Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4,5,6

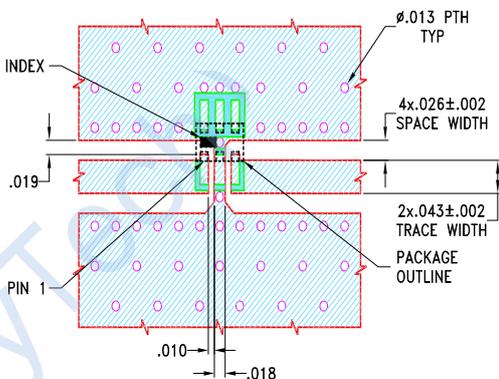
### Outline Drawing



### Outline Dimensions : inch mm

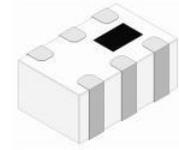
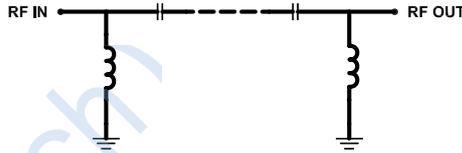
A	B	C	D	E	F	G	Wt.
.079	.049	.037	.014	.012	.012	.026	grams
2.00	1.25	0.95	0.35	0.30	0.30	0.65	.008

### PCB Land Pattern



- NOTES:
1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS (R04350B) WITH DIELECTRIC THICKNESS .020 $\pm$ .0015. COPPER: 1/2 Oz. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
  2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER PATTERN WITH SMOBC (SOLDER MASK OVER BARE COPPER)
- DENOTES PCB COPPER PATTERN FREE OF SOLDERMASK

### Functional Schematic



50  $\Omega$   
2900MHz to 16000MHz

### Electrical Specifications(1) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Passband	2900 - 3100	—	2.0	—	dB
	3100 - 3500	—	1.4	2.1	dB
	3500 - 14000	—	1.0	1.6	dB
	14000 - 16000	—	1.0	—	dB
Stopband	2900 - 16000	—	14	—	dB
	DC - 1000	30	36	—	dB
	1000 - 3000	28	34	—	dB
Freq. Cut-Off	2750	—	3.0	—	dB

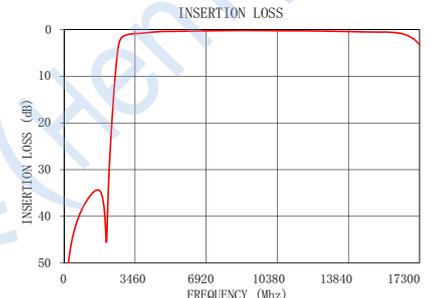
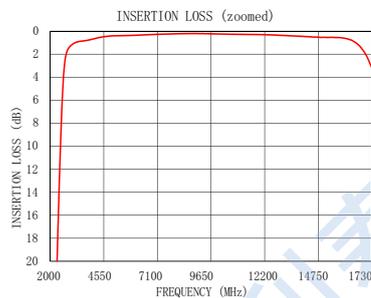
1.This component is not intended to act as a DC block.

### Typical Performance Data(1,2) at 25°C

FREQUENCY (Mhz)	INSERTION LOSS (dB)	Return Loss (dB)
10	70.	0.11
100	9156.	0.13
500	2043.	0.26
1000	0137.	0.29
2000	4340.	0.49
2190	8830.	0.73
2320	9620.	1.08
2670	54	10.
2700	3.11	4513.
2750	2.61	0818.
2900	2.07	9029.
3000	1.42	1328.
3100	1.23	6438.
3500	1.09	8817.
4000	0.87	3416.
10000	0.71	3417.
14000	0.25	8114.
16000	0.46	3020.
17500	0.62	12
18000	4.36	3.43
	8.66	1.72

1.The specifications are tested at 25°C $\pm$ 5°Crelative humidity 55~75%.

2.Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



### Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	4 W at 25°C

\*Passband rating, derate linearly to 1 W at 125°C ambient. Permanent damage may occur if any of these limits are exceeded.



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