

# LTCC 高通滤波器 (High Pass Filter)

HT-HFCG-3800+

## Features

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

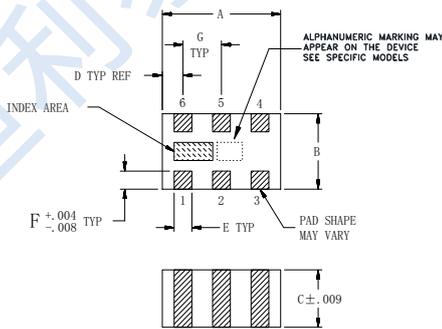
## Applications

- Test and Measurement Equipment.
- Military applications.
- Telecommunications and broadband wireless system.

## Pad Connections

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

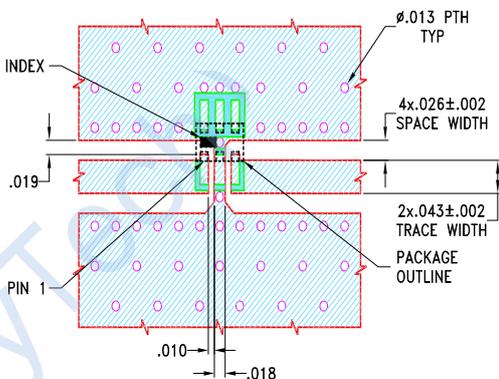
## Outline Drawing



## Outline Dimensions : inch mm

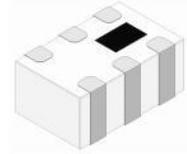
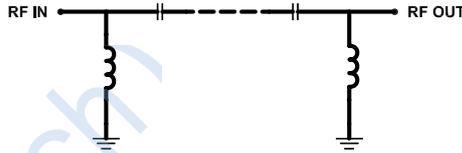
A	B	C	D	E	F	G	Wt.
.079	.049	.037	.014	.012	.012	.026	grams
2.00	1.25	0.95	0.35	0.30	0.30	0.65	.008

## 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  $\Omega$   
4200MHz to 18000MHz

## Electrical Specifications(1,2) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit	
Passband	Insertion Loss	4200 - 4700	—	1.8	—	dB
		4700 - 5500	—	0.9	1.5	dB
		5500 - 16000	—	0.6	1.1	dB
		16000 - 18000	—	1.0	—	dB
Return Loss	4200 - 18000	—	13	—	dB	
Stopband	Rejection Loss	DC - 2700	37	42	—	dB
		2700 - 3000	24	34	—	dB
		Freq. Cut-Off	3800	—	2.8	—

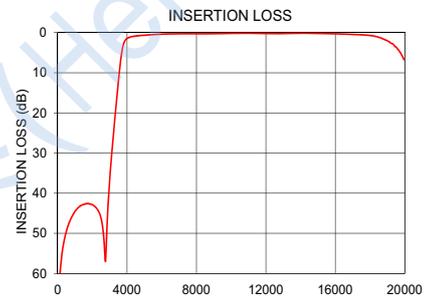
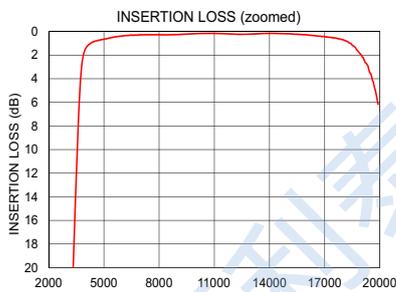
1.This component is not intended to act as a DC block

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

FREQUENCY (Mhz)	INSERTION LOSS (dB)	Return Loss (dB)
10	73.86	0.09
100	62.00	0.10
500	49.55	0.20
1000	44.49	0.22
2700	53.73	0.37
3000	36.64	0.55
3320	20.40	0.96
3500	12.21	1.76
3780	3.11	8.68
3800	2.82	9.69
4000	1.46	20.70
4200	1.09	26.10
4700	0.75	19.61
5500	0.50	19.04
8000	0.29	18.55
10000	0.19	19.37
14000	0.16	25.06
16000	0.29	23.72
18000	0.71	24.59
20000	7.13	3.78

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

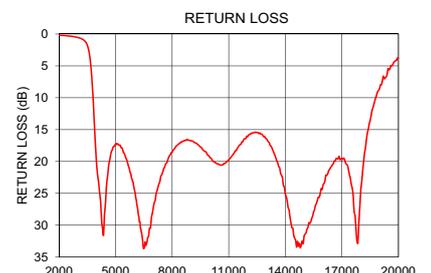
2.Other quality and characteristic not specify in this datasheet. Please contact us for detail requirements.



## Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	3W at 25°C

\*Permanent damage may occur if any of these limits are exceeded.



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