

LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-1500+

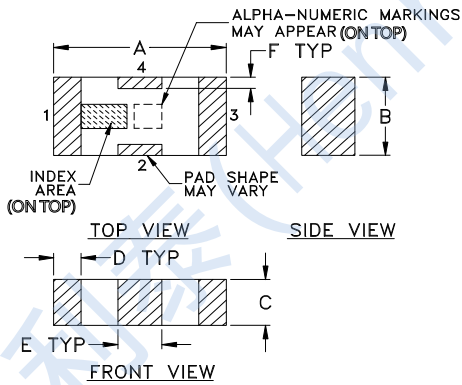
Features

- Low cost
- Small size
- 7 sections
- Temperature stable
- LTCC construction
- Excellent power handling, 7W
- Hermetically sealed

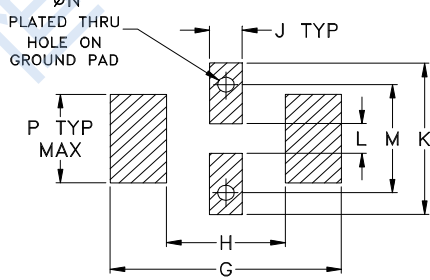
Applications

- Sub-harmonic rejection
- Transmitters/receivers
- Lab use

Outline Drawing



PCB Land Pattern



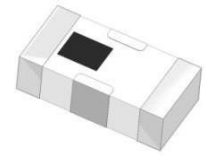
Suggested Layout,
Tolerance to be within $\pm .002$

Outline Dimensions : inch mm

A	B	C	D	E	F	G
.126	.063	.037	.020	.032	.009	.169
3.20	1.60	0.94	0.51	0.81	0.23	4.29

H	J	K	L	M	N	P	wt
.087	.024	.122	.024	.087	.012	.071	grams
2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Functional Schematic



50 Ω
1600MHz to 5500MHz

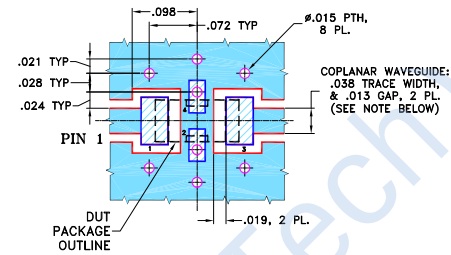
Electrical Specifications(1,2) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Stop Band	Rejection Loss	1060	40	—	dB
		1250	20	—	
	Freq. Cut-Off	1550	—	3.0	dB
Pass Band	VSWR	1060-1250	—	20	:1
	Insertion Loss	1600-5500	—	2.0	dB
	VSWR	1850-4400	—	1.3	dB
		1620-3450	—	1.5	:1

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Suggested PCB Layout



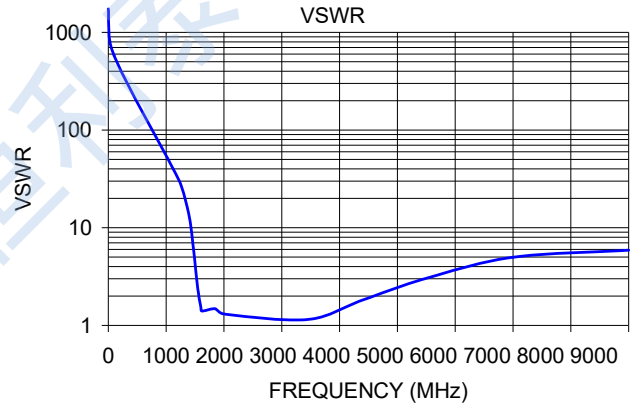
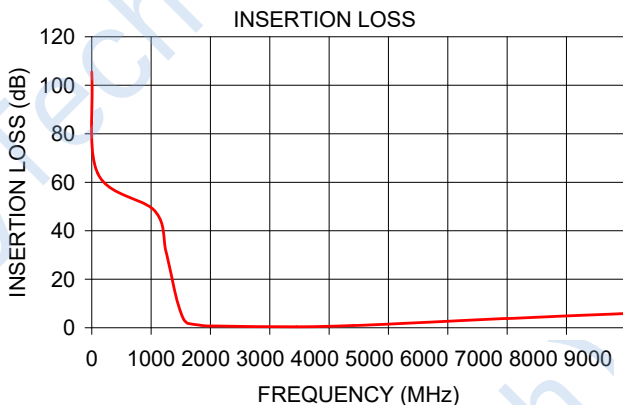
- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" $\pm$.0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)
 - DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	7W max at 25°C

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

Typical Performance Data at 25°C



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