

LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-2100+

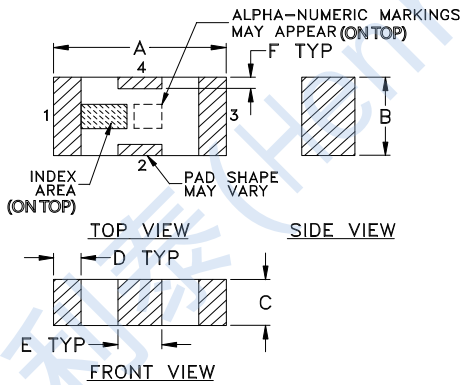
Features

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

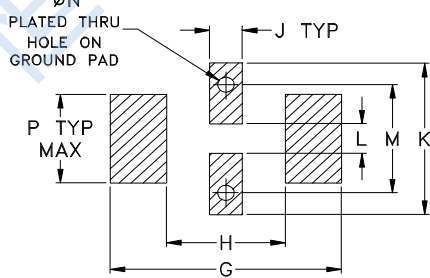
Applications

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

Outline Drawing



PCB Land Pattern

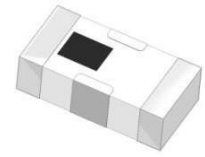


Suggested Layout,
Tolerance to be within $\pm .002$

Outline Dimensions $\frac{1}{16}$ 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
2200MHz to 6000MHz

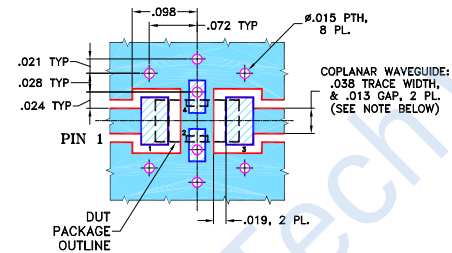
Electrical Specifications(1,2) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Rejection Loss	1050	40	—	—	dB
Stop Band	1530	20	—	—	dB
Freq. Cut-Off	2100	—	3.0	—	dB
VSWR	1050-1530	—	20	—	:1
Insertion Loss	2200-6000	—	2.0	—	dB
Pass Band	2500-5000	—	—	1.3	dB
VSWR	2400-5200	—	1.5	—	:1

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

Suggested PCB Layout



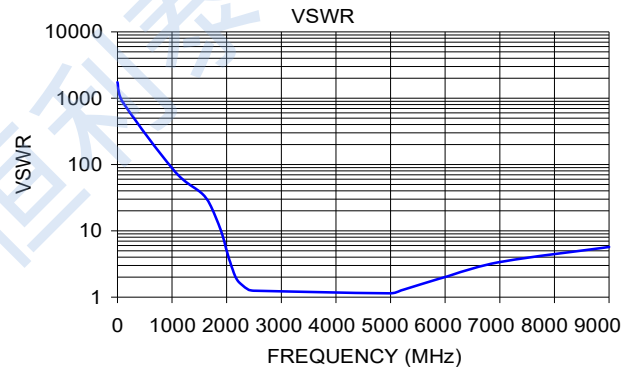
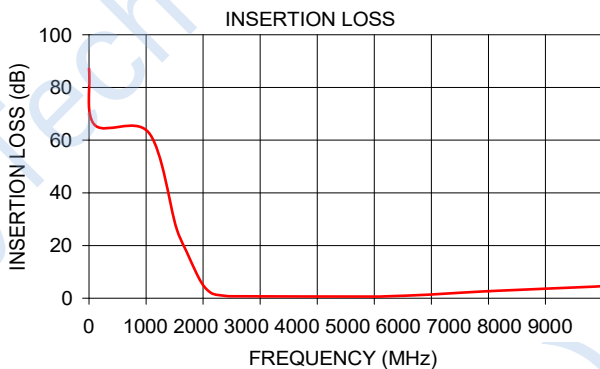
- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" $\pm$.0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- COPLANAR WAVEGUIDE: .038 TRACE WIDTH, & .013 GAP, 2 PL. (SEE NOTE BELOW)
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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



Tel: +86-28-85589664

E-mail: mr_li@henglitaitech.com

Web: www.hltchips.com

Room 1401, 14th Floor, Building 5, Huaxi Science and Technology Innovation Center, No. 50, Shuixi Road, Jinniu District, Chengdu City