

LTCC 高通滤波器 (High Pass Filter)

HT-HFCN-1760+

Features

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

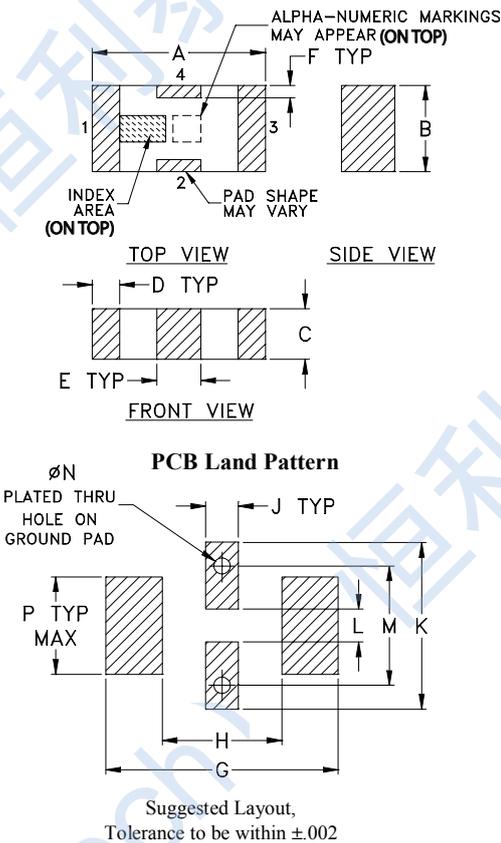
Applications

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

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

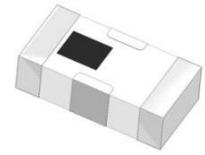
Outline Drawing



Outline Dimensions : inch mm

A	B	C	D	E	F	G		
.126	.063	.037	.020	.032	.009	.169		
3.26	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



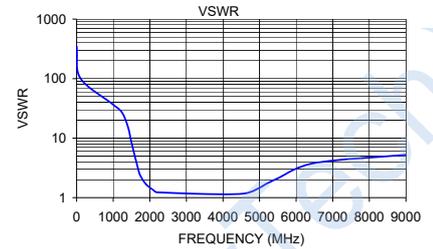
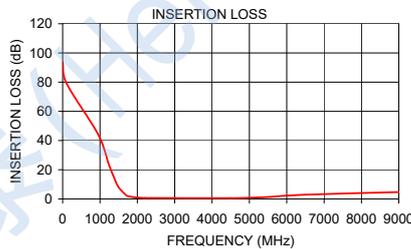
50 Ω
1900MHz to 5500MHz

Electrical Specifications(1) at 25°C

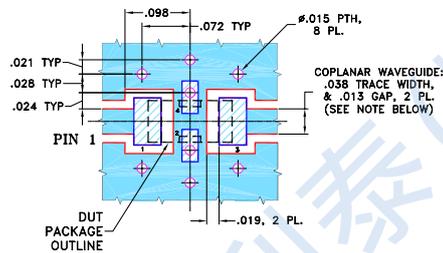
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units	
Stop Band	Rejection Loss	950	40	-	-	dB
		1230	20	-	-	dB
	Freq. Cut-Off	1760	-	3.0	-	dB
	VSWR	950-1230	-	20	-	:1
Pass Band	Insertion Loss	1900-5500	-	2.0	-	dB
		2100-5200	-	-	1.3	dB
	VSWR	2200-4500	-	1.5	-	:1

1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25°C



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 +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	7W max at 25°C

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