

Features

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

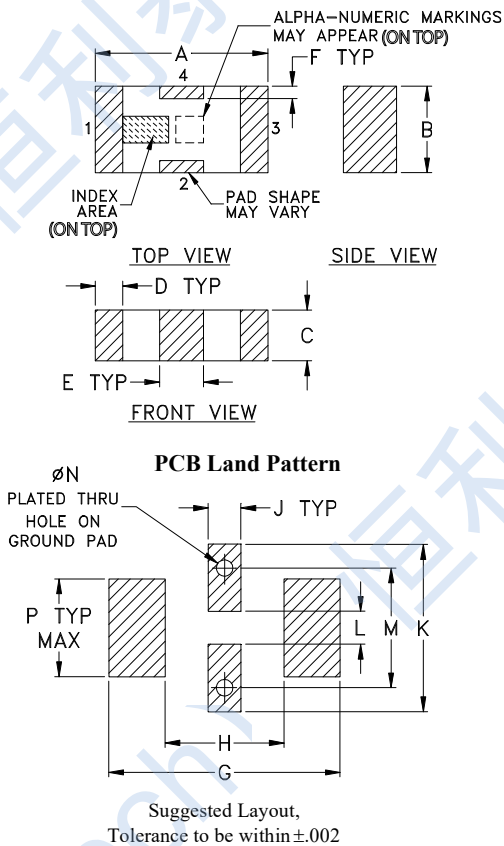
Applications

Sub-harmonic rejection
Transmitters/receivers
Lab use

Pad Connections

RF IN	1
RF OUT	3
GROUND	2,4

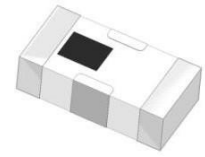
Outline Drawing



Outline Dimensions : inch mm

A	B	C	D	E	F	G	H	J	K	L	M	N	P	wt
.126	.063	.037	.020	.032	.009	.169	.087	.024	.122	.024	.087	.012	.071	grams
3.20	1.60	0.94	0.51	0.81	0.23	4.29	2.21	0.61	3.10	0.61	2.21	0.30	1.80	.020

Functional Schematic

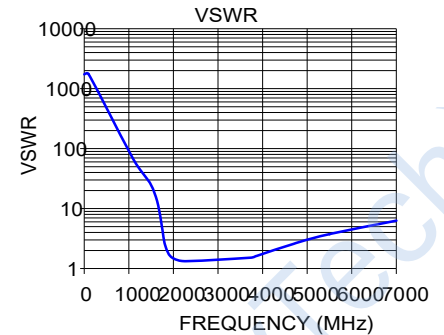
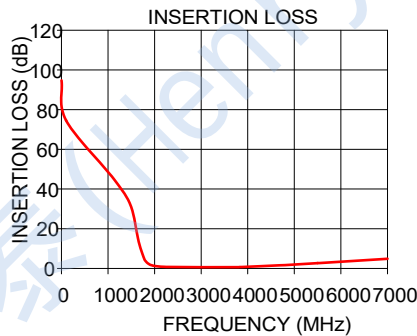


50 Ω
1950MHz to 4750MHz

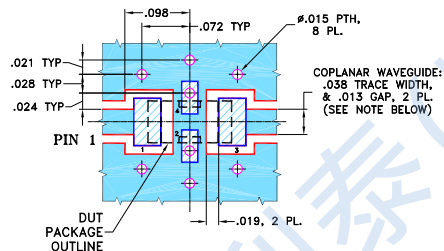
Electrical Specifications(1,2) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Units
Rejection Loss	1100	40	—	—	dB
Stop Band Freq. Cut-Off	1480	20	—	—	dB
VSWR	1810	—	3.0	—	dB
Insertion Loss	1100-1480	—	20	—	:1
Pass Band	1950-4750	—	2.0	—	dB
VSWR	2250-3850	—	—	1.3	dB
	2250-3750	—	1.5	—	:1

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 +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.