

LTCC 带通滤波器 (Bandpass Filter)

HT-BFCN-4100+

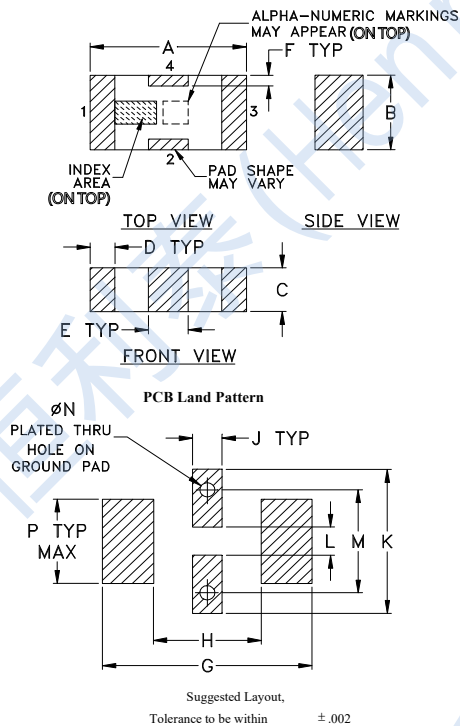
Features

- Small size
- Temperature stable
- Hermetically sealed
- LTCC construction

Applications

- Harmonic Rejection
- Transmitters / Receivers
- Test and Measurement

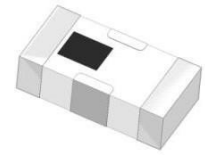
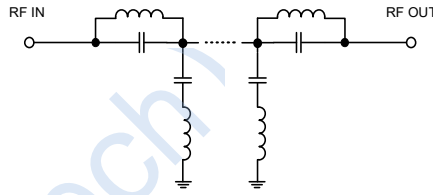
Outline Drawing



Outline Dimensions $\frac{\text{inch}}{\text{mm}}$

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
3700MHz to 4500MHz

Electrical Specifications(1,2) at 25°C

Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	4100	2	MHz
	Insertion Loss	3700 - 4500	1.4	2	dB
	VSWR	3700 - 4500	1.5	—	:1
Stop Band, Lower	Insertion Loss	DC - 2200	25	—	dB
	VSWR	DC - 2200	25	—	:1
Stop Band, Upper	Insertion Loss	6000 - 9000	20	—	dB
	VSWR	6000 - 9000	20	—	:1

Pad Connections

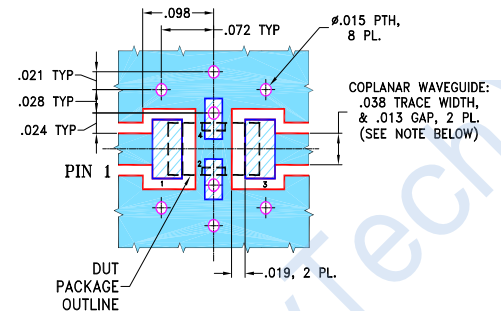
Input	1
Output	3
Ground	2, 4

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	2W max at 25°C

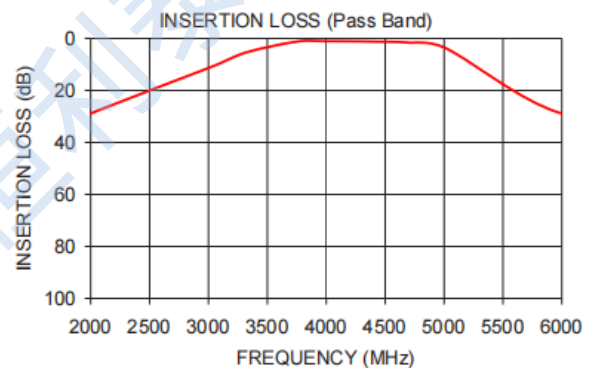
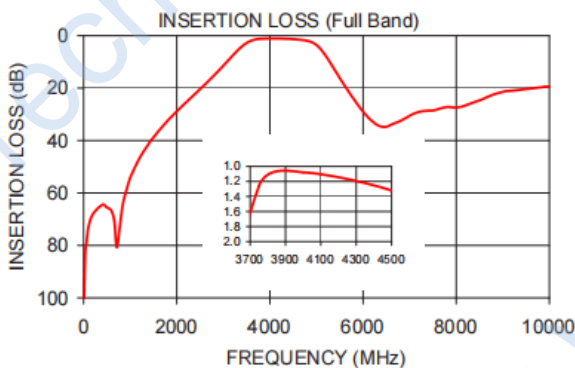
*Permanent damage may occur if any of these limits are exceeded.

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.

Typical Performance Data at 25°C



Typical Performance Data at 25°C

