

LTCC 带通滤波器 (Bandpass Filter)

HT-BFCN-2500+

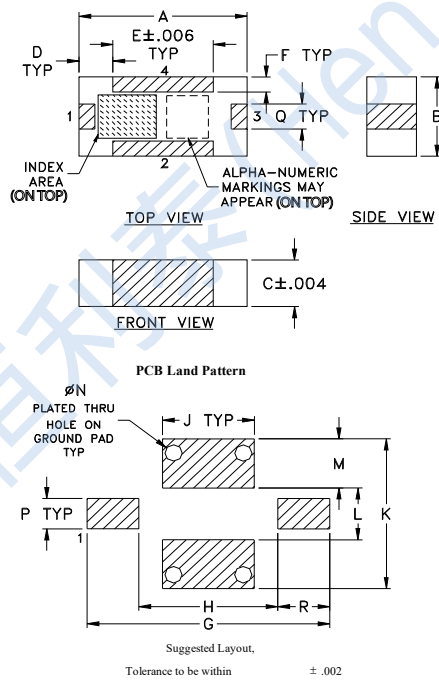
Features

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

Applications

- Harmonic Rejection
- Transmitters / Receivers
- Test and Measurement

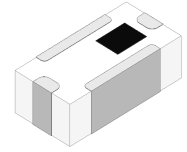
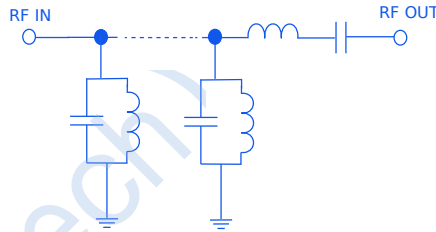
Outline Drawing



Outline Dimensions

inch		mm						
A	B	C	D	E	F	G	H	J
.126	.063	.037	.026	.075	.012	.182	.104	.069
3.20	1.60	0.94	0.66	1.91	0.30	4.62	2.64	1.75
K	L	M	N	P	Q	R	wt	
.119	.041	.039	.013	.024	.020	.039	grams	
3.02	1.04	0.99	0.33	0.61	0.51	0.99	.020	

Functional Schematic



50 Ω
2100MHz to 2900MHz

Electrical Specifications(1,2) at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Center Frequency	—	—	—	2500	—	MHz
Pass Band	Insertion Loss	F1 - F2	2100 - 2900	—	2	3.7 dB
	VSWR	F1 - F2	2100 - 2900	—	1.8	2.6 :1
	Insertion Loss	DC - F3	1600	—	20	— dB
Stop Band, Lower	VSWR	DC - F3	1600	—	20	— :1
	Insertion Loss	F4 - F5	3700 - 5200	—	20	— dB
Stop Band, Upper	VSWR	F4 - F5	3700 - 5200	—	15	— :1

Pad Connections

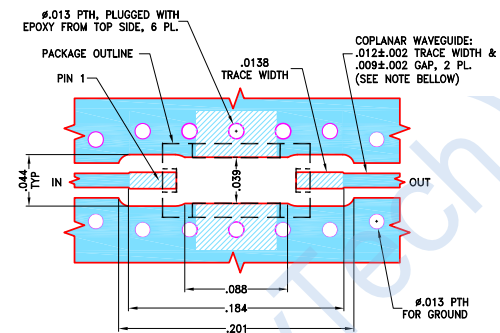
Input	1
Output	3
Ground	2, 4

Maximum Ratings

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

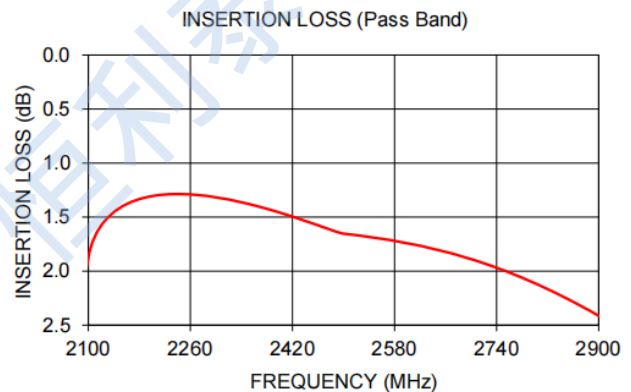
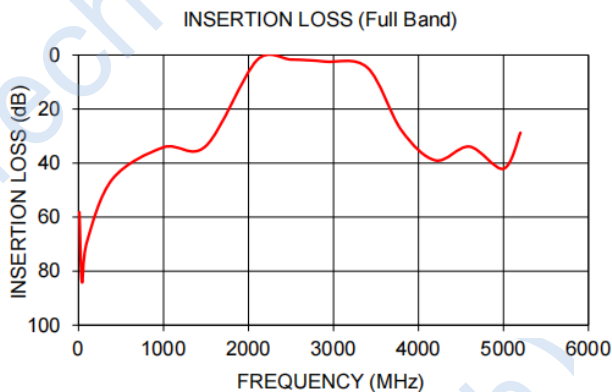
*Permanent damage may occur if any of these limits are exceeded.

Suggested PCB Layout



1. TRACE WIDTH AND GAP PARAMETERS ARE SHOWN FOR ROGERS R04350B WITH DIELECTRIC THICKNESS .006"±.0007". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH AND GAP MAY NEED TO BE MODIFIED.
 2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
 3. UNIT LAND PATTERN WAS OPTIMIZED FOR BETTER PERFORMANCE.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Typical Performance Data at 25°C



Typical Performance Data at 25°C

