

LTCC 带通滤波器 (Bandpass Filter)

HT-BFCN-1052+

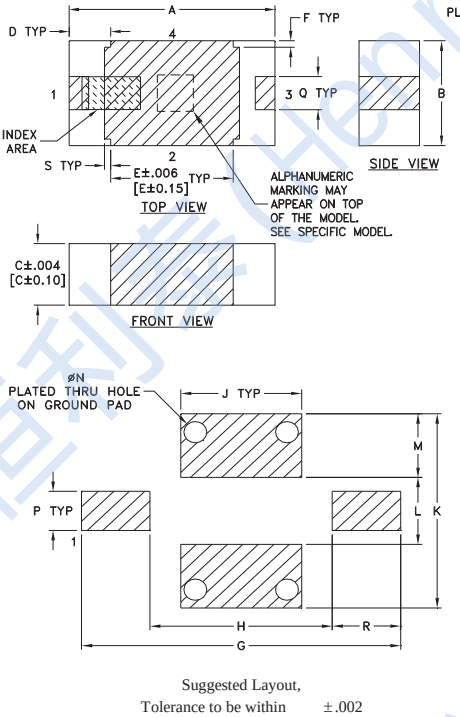
Features

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

Applications

- Harmonic Rejection
- Transmitters / Receivers
- Test and Measurement

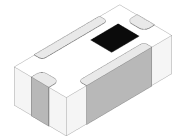
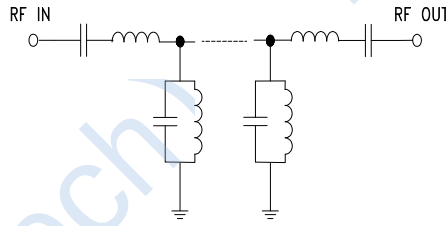
Outline Drawing



Outline Dimensions

A	B	C	D	E	F	G	H	J
.126	.063	.037	.026	.075	.004	.182	.104	.069
3.20	1.60	0.94	0.66	1.91	0.10	4.62	2.64	1.753
K	L	M	N	P	Q	R	S	wt
0.119	0.041	.039	.013	.024	.020	.039	.004	grams
3.023	1.041	0.99	0.33	0.61	0.51	0.99	0.10	.020

Functional Schematic



50 Ω

9700MHz to 11950MHz

Electrical Specifications(1,2) at 25°C

Parameter	F#	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	10770	—	MHz
	Insertion Loss	F1-F2	—	1.6	3.0	dB
	VSWR	F1-F2	—	1.9	—	:1
Stop Band, Lower	Insertion Loss	DC-F3	—	—	—	dB
	Insertion Loss	8100-8400	20	32	—	dB
Stop Band, Upper	Insertion Loss	F4-F5	—	—	—	dB
	Insertion Loss	28500-44000	—	25	—	dB

Pad Connections

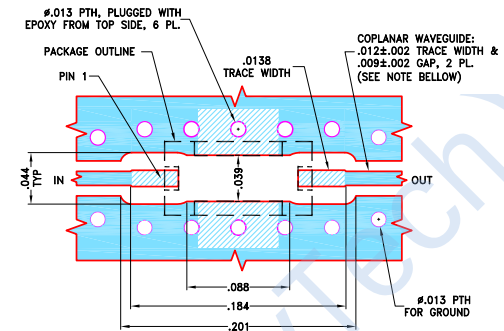
Input	1
Output	3
Ground	2

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.

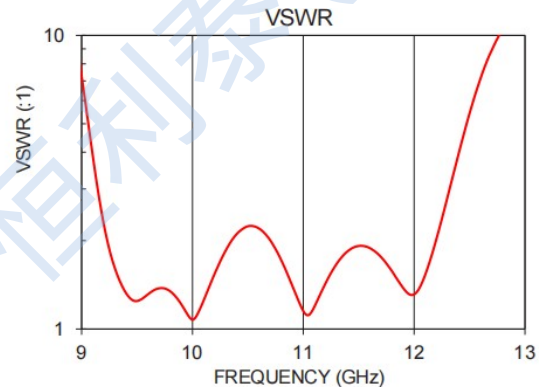
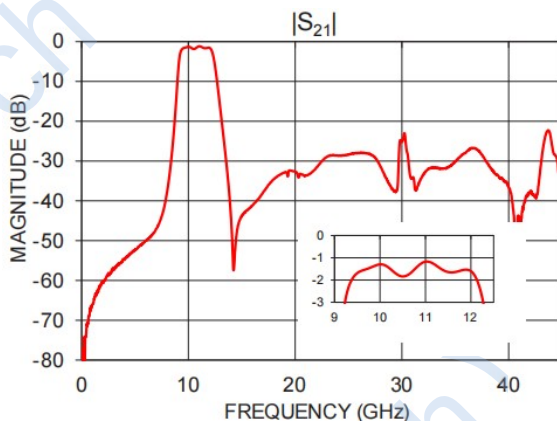
Suggested PCB Layout



NOTES:

1. TRACE WIDTH AND GAP PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .0066"±.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



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