

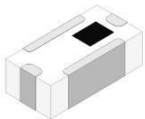
Features

- excellent power handling
- small size
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

- Harmonic rejection
- Transmitters / Receivers

HT-BFCN-2500+

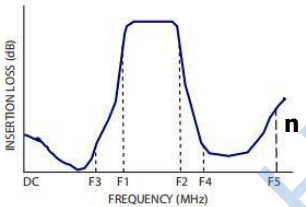


50Ω 2100 to 2900 MHz

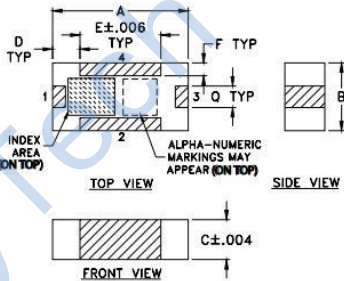
Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	2.5W at 25°C
*Passband rating, derate linearly to 0.7W at 100°C ambient Permanent damage may occur if any of these limits are exceeded.	

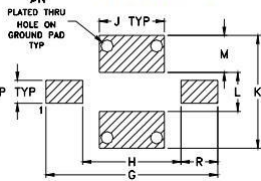
Specification Definition



Outline Drawing



PCB Land Pattern



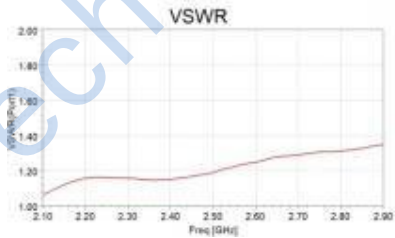
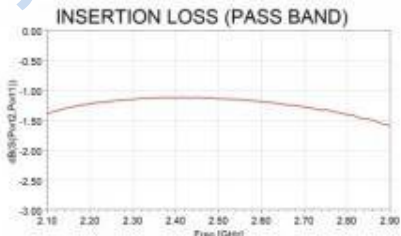
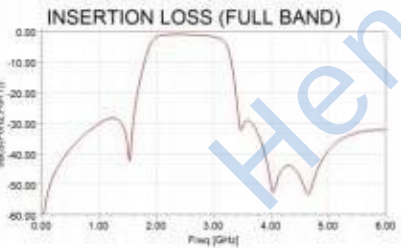
Suggested Layout
Tolerance to be within ±0.02

Outline Dimensions: Unit (mm)

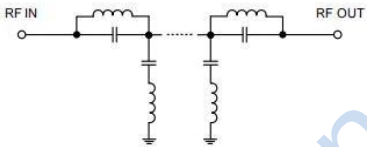
A	3.20	B	1.60	C	0.94
D	0.66	E	1.91	F	0.30
G	4.62	H	2.64	J	1.75
K	3.02	L	1.04	M	0.99
N	0.33	P	0.61	Q	0.51
R	0.99	wt	0.02g		

Electrical Specifications at 25°C

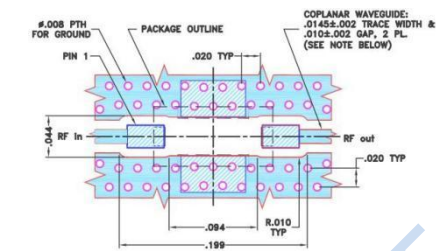
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-			2500		MHz
	Insertion Loss	F1-F2	2100-2900	-	2.0	3.0	dB
	VSWR	F1-F2	2100-2900	-	1.5	1.8	1
Stop Band, Lower	Insertion Loss	DC-F3	DC-1600	-	28	-	dB
	VSWR	DC-F3	DC-1600	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	3700-5200	-	28	-	dB
	VSWR	F4-F5	3700-5200	-	20	-	1



Functional Schematic



Suggested PCB Layout



- NOTES:
1. TRACE WIDTH PARAMETERS ARE SHOWN FOR ROGERS RO4350B 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.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
- DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4