

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-3115+



50Ω 2720 to 3570 MHz

Electrical Specifications at 25°C

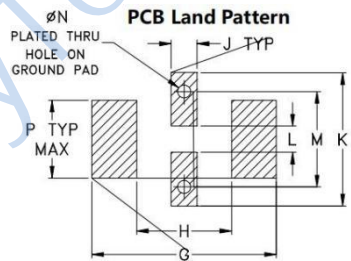
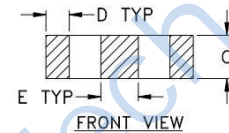
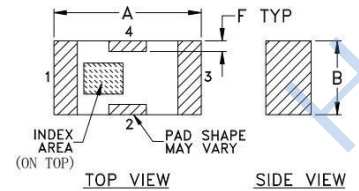
Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-			3115		MHz
	Insertion Loss	F1-F2	2720-3570	-	1.7	2.0	dB
	VSWR	F1-F2	2720-3570	-	2.0	3.0	:1
Stop Band, Lower	Insertion Loss	DC-F3	DC-1850	20	26	-	dB
	VSWR	DC-F3	DC-1850	-	20	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	4300-8160	20	23	-	dB
	VSWR	F4-F5	4300-8160	-	20	-	:1

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	1.5W .at 25°C

*Passband rating, derate linearly to 0.25W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

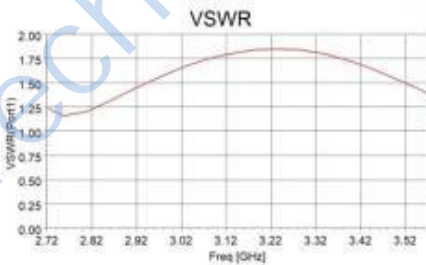
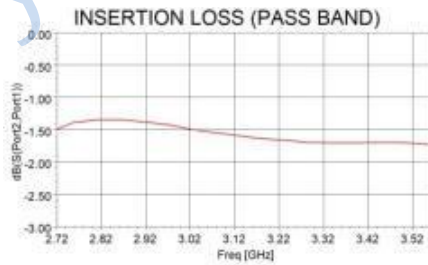
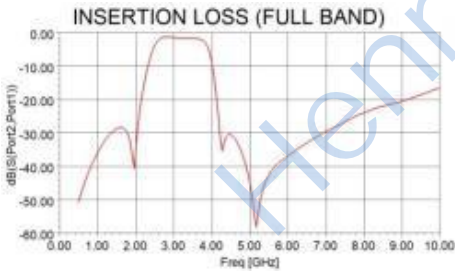
Outline Drawing



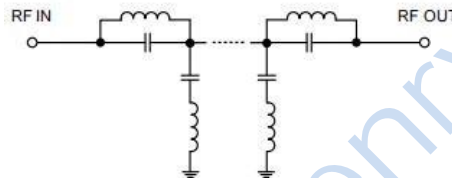
Suggested Layout
Tolerance to be within ±0.02

Outline Dimensions: Unit (mm)

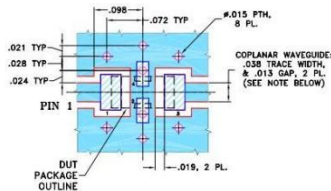
A	3.20	B	1.60	C	0.95
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.8	wt	0.02g



Functional Schematic



Demo Board P/N: T-39 Suggested PCB Layout (PL-137)



- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .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

Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4