

Features

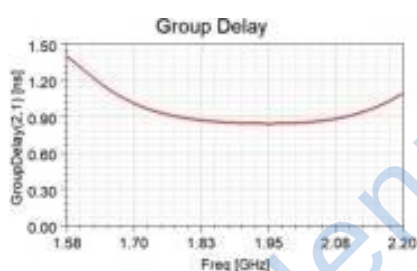
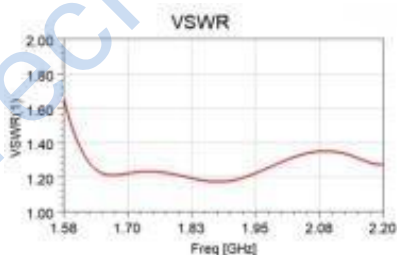
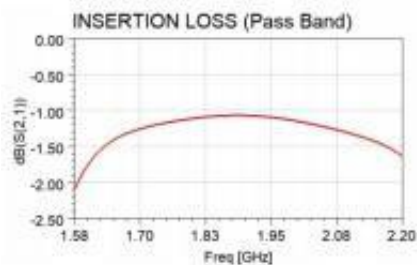
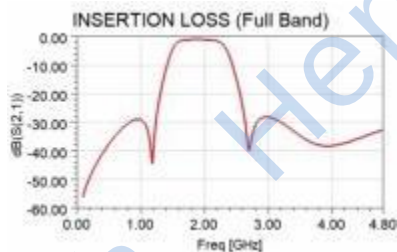
- excellent power handling
- small size
- temperature stable
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

Applications

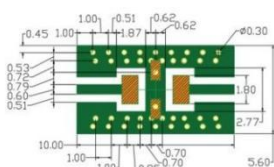
- Harmonic rejection
- Transmitters / Receivers

Electrical Specifications at 25°C

Parameter		F#	Frequency(MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	-			1860		MHz
	Insertion Loss	F1-F2	1580-2200	-	2.0	3.0	dB
	VSWR	F1-F2	1580-2200	-	1.5	2.5	:1
Stop Band, Lower	Insertion Loss VSWR	DC-F3	1300	-	20	-	dB
		DC-F3	1300	-	20	-	:1
Stop Band, Upper	Insertion Loss VSWR	F4-F5	2600-4800	-	20	-	dB
		F4-F5	2600-4800	-	15	-	:1



Suggested PCB Layout



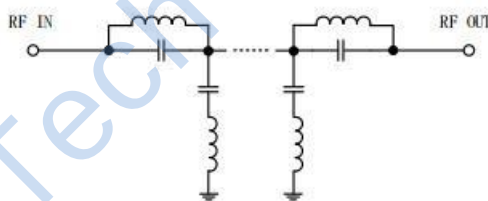
NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" $\pm$.0015".
COPPER: 1/2 OZ. EACH SIDE.
FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.

2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

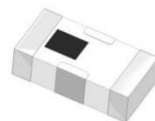
 DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)

 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

Functional Schematic



HT-BFCN-1860+



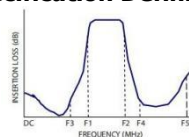
50Ω 1580 to 2200 MHz

Maximum Ratings

Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input*	3W @ 25°C

*Passband rating, derate linearly to 1W at 100°C ambient
 Permanent damage may occur if any of these limits are exceeded.

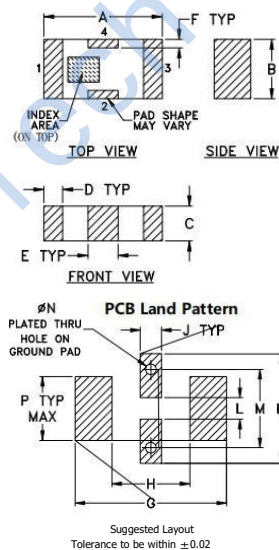
Specification Definition



Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



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