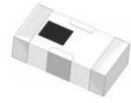


## HT-BFCN-3700+



50Ω 3000 to 4600 MHz

### 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	-	3000-4600	-	3700	-	MHz
	Insertion Loss	F1-F2	3000-4600	-	2.0	3.5	dB
	VSWR	F1-F2	3000-4600	-	1.5	2.5	:1
Stop Band, Lower	Insertion Loss	DC-F3	2100	21	28	-	dB
	VSWR	DC-F3	2100	-	23	-	:1
Stop Band, Upper	Insertion Loss	F4-F5	5600-8000	20	25	-	dB
	VSWR	F4-F5	5600-8000	-	16	-	:1

### Maximum Ratings

Operating Temperature -55°C to 100°C

Storage Temperature -55°C to 100°C

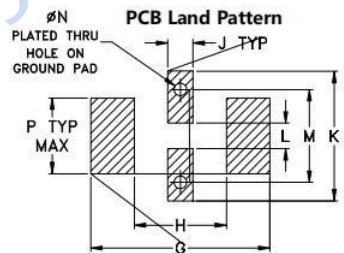
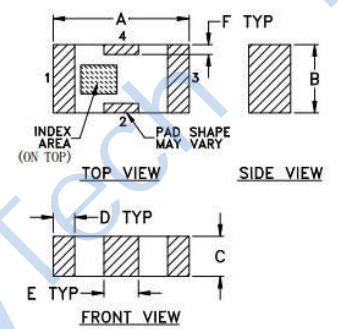
RF Power Input\* 3W at 25°C

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

### Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

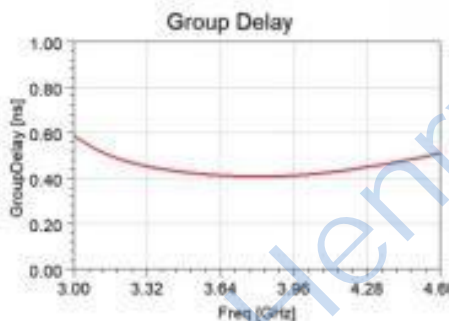
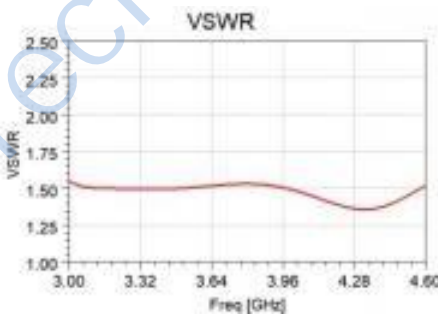
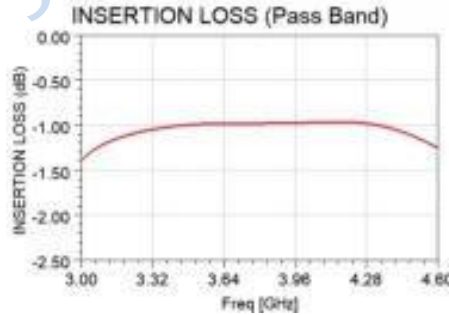
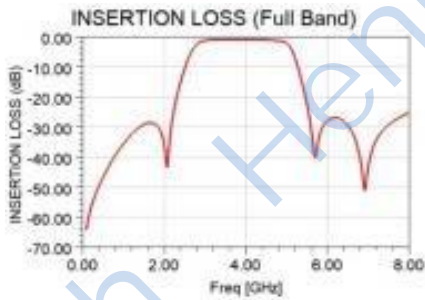
### Outline Drawing



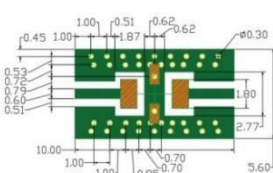
Suggested Layout  
Tolerance to be within ±0.02

### Outline Dimensions: Unit ( mm )

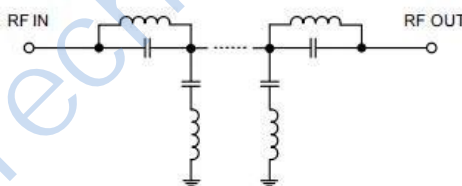
A	3.20	B	1.60	C	0.95
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.8	wt	0.02g



### Suggested PCB Layout



### Functional Schematic



NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350 WITH THICKNESS .508" ± .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.