

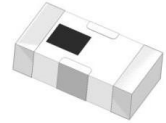
## Features

- excellent power handling
- Small size
- 7 sections
- temperature stable
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

## Applications

- sub-harmonic rejection
- transmitters/receivers
- base station of mobile communication and lab use

## HT-HFCN-1320+



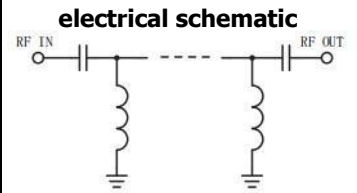
50Ω 1400 to 5000 MHz

### Electrical Specifications (T<sub>AMB</sub>= 25° C)

STOP BAND (MHz)		FCO(MHz) Nom.	PASS BAND (MHz)		VSWR (-1)		POWER INPUT (W)	NO. OF SECTIONS
(Loss>40dB) Min.	(Loss>20dB) Min.	(Loss 3dB) Typ.	(Loss<1.3dB) Max.	(Loss<2dB) Max.	Stopband Typ.	Frequency (MHz) 1.5:1		
880	1060	1390	1700-3800	1400-5000	20:1	1700-3700	7	7

### Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (-1)
10	69.74	292.73
100	64.40	181.82
880	50.42	41.18
1060	38.91	28.54
1180	25.43	17.64
1260	14.94	9.46
1320	7.61	4.13
1400	2.76	1.43
1700	1.04	1.19
3700	0.60	1.38
3800	0.65	1.47
5000	1.45	2.56
6000	1.73	2.88
8000	0.36	2.26



### Pin Connections

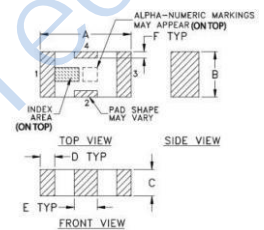
RF IN	1
RF OUT	3
GROUND	2,4

### Maximum Ratings

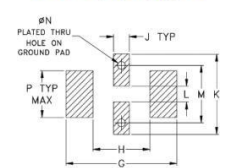
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

\* Passband rating, derate linearly to 3.5W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

### Outline Drawing



### PCB Land Pattern

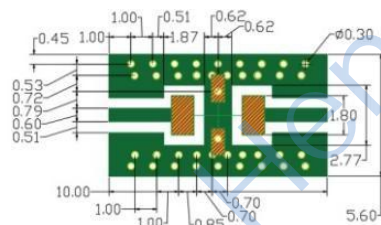


Suggested Layout Tolerance to be within ±0.02

### Outline Dimensions, Unit (mm)

A	3.20	B	1.60	C	0.95
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	1.80	wt	0.02g

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



- 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.
- DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER)  
 DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK

