

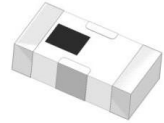
Features

- 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-1200+



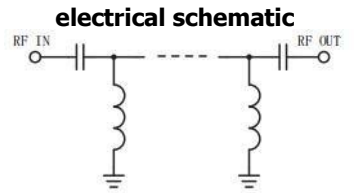
50Ω 1220 to 4600 MHz

Electrical Specifications (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO(MHz) Nom.	PASS BAND (MHz)		VSWR (:1)		POWER INPUT (W)	NO. OF SECTION S
(Loss>40dB) Min.	(Loss>20dB) Min.	(Loss 3dB) Typ.	(Loss<1.3dB) Max.	(Loss<2dB) Max.	Stopband Typ.	Frequency (MHz) 1.5:1		
750	910	1180	1380-4000	1220-4600	20:1	1300-3200	7	7

Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	70.00	1400.41
100	60.16	122.90
750	65.23	29.30
910	29.59	17.05
1050	9.74	5.21
1130	3.41	1.06
1180	2.20	1.22
1220	1.80	1.09
1300	1.38	1.06
1380	1.14	1.09
3200	0.44	1.21
4000	0.70	1.70
4600	0.83	1.90
7000	1.10	2.12



Pin Connections

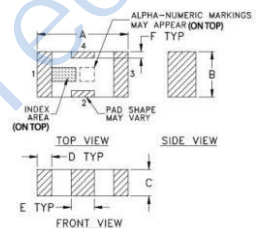
RF IN	1
RF OUT	3
GROUND	2,4

Maximum Ratings

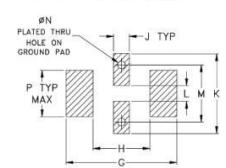
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

* Passband rating, operate linearly to 3W at 100°C ambient. Permanent damage may occur if any of these limits are exceeded.

Outline Drawing



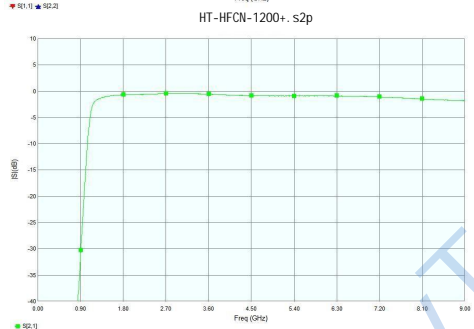
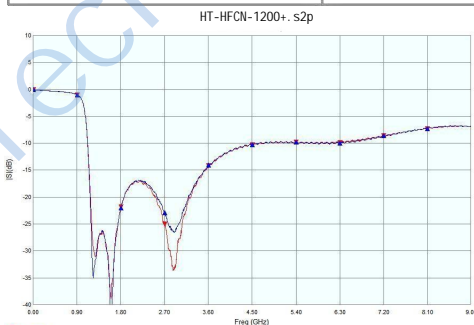
PCB Land Pattern



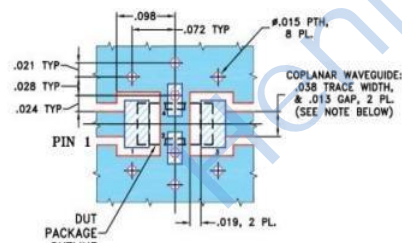
Suggested Layout
Tolerance to be within ±0.02

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



Suggested PCB Layout



- 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