



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

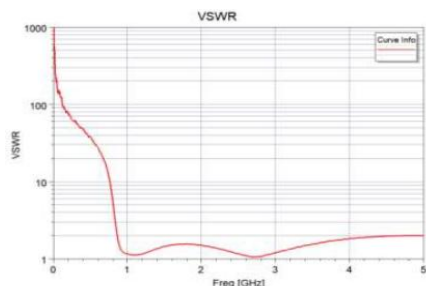
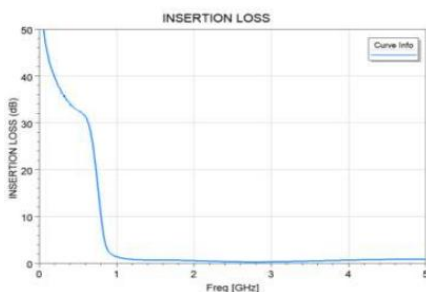
Electrical Specifications¹ (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO ₁ (MHz) Nom.	PASS BAND (MHz)		VSWR (:1)		POWER INPUT (W)	NO. OF SECTION S
(Loss>30dB) Min.	(Loss>20dB) Min.	(Loss 3dB) Typ.	(Loss<1.3dB) Max.	(Loss<2dB) Max.	Stopband Typ.	Frequency (MHz) 1.5:1		
500	640	880	1060-2500	950-3200	20:1	970-2400	7	7

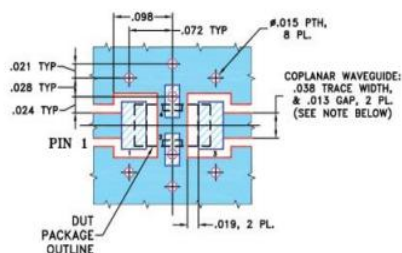
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	85.14	4646.28
100	45.31	121.89
500	32.63	38.36
640	29.65	23.69
750	17.56	11.67
810	8.64	4.94
880	3.03	1.66
950	1.77	1.21
970	1.62	1.19
1060	1.17	1.13
2400	0.41	1.24
2500	0.37	1.17
3200	0.39	1.36
5000	0.88	2.01

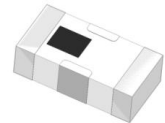


Suggested PCB Layout



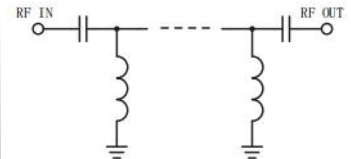
- NOTES: 1. COPLANAR WAVEGUIDE PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH THICKNESS .020" ± .0015". COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.
- COPLANAR WAVEGUIDE: .038 TRACE WIDTH, & .013 GAP, 2 PL. (SEE NOTE BELOW)
- PIN 1
- DUT PACKAGE OUTLINE
- #N PLATED THRU HOLE ON GROUND PAD
- COPLANAR WAVEGUIDE: .038 TRACE WIDTH, & .013 GAP, 2 PL. (SEE NOTE BELOW)
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JY-HFCN-880+



50Ω 950 to 3200 MHz

electrical schematic



Pin Connections

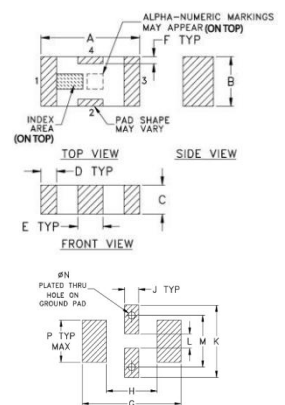
RF IN	1
RF OUT	3
GROUND	2,4

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



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