



Features

- Low cost
- Small size
- 5 sections
- Temperature stable
- Excellent power handling
- 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

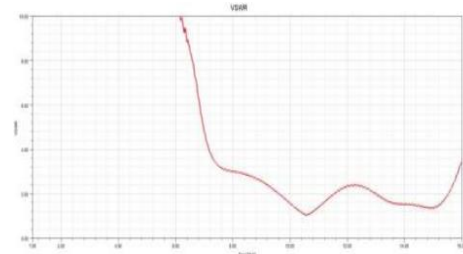
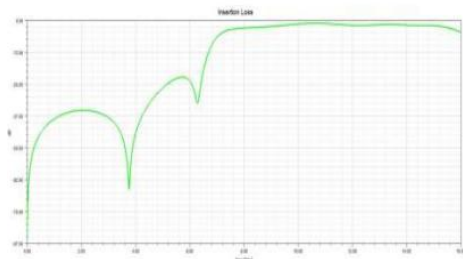
Electrical Specifications ¹(T_{AMB}= 25° C)

STOP BAND (MHz)		FCO ₀ (MHz) Nom.	PASS BAND (MHz)		VSWR (:1)		POWER INPUT (W)	NO. OF SECTIONS
(Loss>30dB) Typ.	(Loss>20dB) Min.	(Loss 3dB) Typ.	(Loss<2.5dB) Max.	(Loss<3dB) Max.	Stopband Typ.	Frequency (MHz) 1.5:1	Max	
5700	6000	8400	9500-13000	9000-13000	20:1	9000-13000	7	5

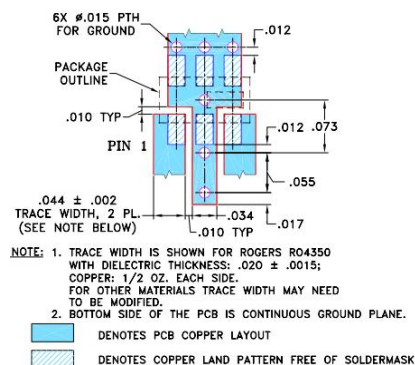
¹. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	61.91	1737.18
1000	38.60	1500.37
1960	35.58	157.93
3250	40.06	64.94
4170	39.69	32.79
5020	26.83	27.16
5680	22.27	25.72
6470	20.04	21.40
8050	3.03	1.47
9500	1.92	1.46
10480	1.17	1.34
11610	1.73	1.40
12530	1.95	1.52
13440	1.65	2.03
15000	2.11	2.31



Suggested PCB Layout



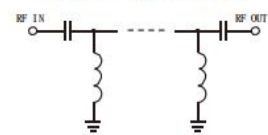
NOTE: 1. TRACE WIDTH IS SHOWN FOR ROGERS RO4350 WITH DIELECTRIC THICKNESS: .020 ± .0015; COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

JY-HFCN-8400+



50Ω 9000 to 13000 MHz

electrical schematic



Pin Connections

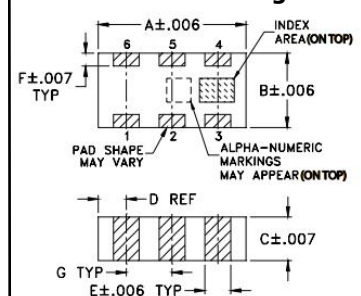
RF IN	1
RF OUT	3
GROUND	2,4,5,6

Maximum Ratings

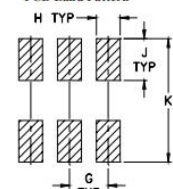
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

*Passband rating, derate linearly to 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	0.89
D	0.61	E	0.56	F	0.28
G	0.99	H	0.61	J	1.07
K	3.12	wt	0.020g		