

Features

- low cost
- small size
- 7 sections
- temperature stable
- hermetically sealed
- LTCC construction
- excellent power handling, 7W

Applications

- sub-harmonic rejection
- transmitters/receivers
- lab use

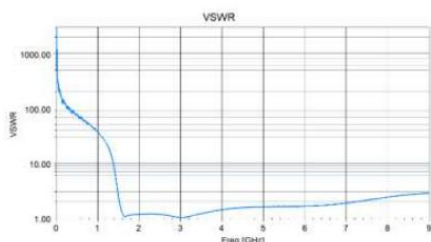
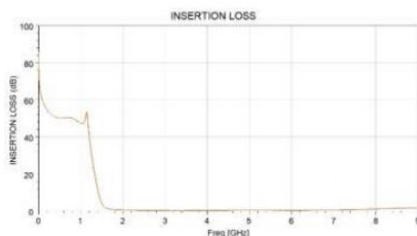
Electrical Specifications¹ (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO ₄ (MHz) Nom.	PASS BAND (MHz)		VSWR (:1)	POWER INPUT (W)	NO. OF SECTIONS
(Loss > 30dB) Typ.	(Loss > 20dB) Min.	(Loss 3dB) Typ.	(Loss < 1.3dB) Max.	(Loss < 2dB) Max.	Stopband Frequency (MHz) 1.5:1		
1060	1250	1550	1850-4400	1600-5500	20:1 1620-3450	7	7

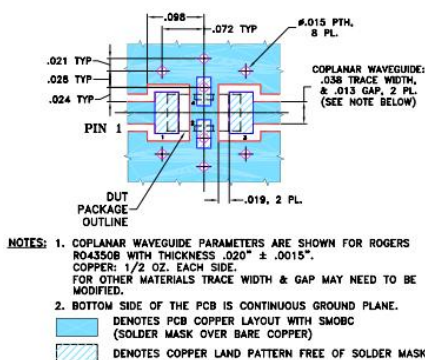
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25° C

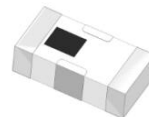
Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	85.04	3056.88
100	59.12	178.78
1060	47.45	32.79
1250	31.82	20.63
1400	12.19	8.19
1480	5.29	3.25
1550	2.52	1.62
1600	1.78	1.22
1620	1.60	1.14
1850	0.91	1.16
2000	0.74	1.19
3450	0.38	1.19
4400	0.55	1.55
5500	0.57	1.63
7700	1.07	2.24
9000	1.85	2.87



Suggested PCB Layout



JY-HFCN-1500+



Generic photo used for illustration purposes only

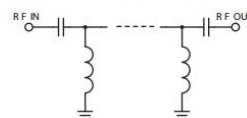
50Ω 1600 to 5500 MHz

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.

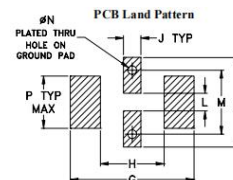
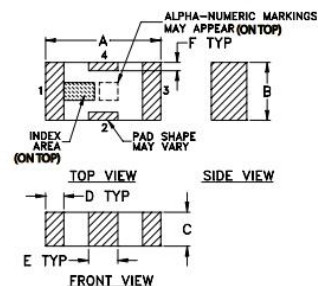
electrical schematic



Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

Outline Drawing



Suggested Layout
Tolerance to be within ±0.05

Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.94
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