

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

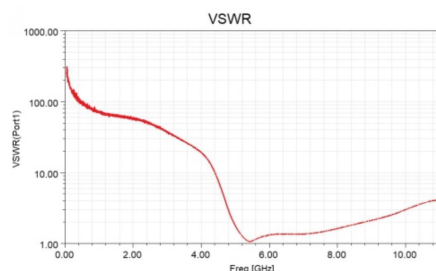
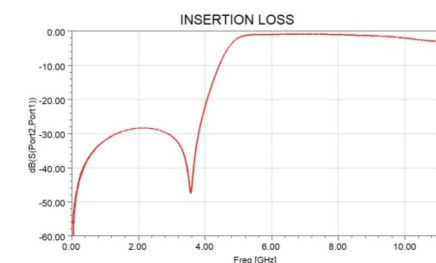
Electrical Specifications ¹ (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO ₀ (MHz) Nom.	PASS BAND (MHz)		VSWR (:1)		POWER INPUT (W)	NO. OF SECTIONS
(Loss>25dB) Typ.	(Loss>20dB) Min.	(Loss 3dB) Typ.	(Loss<1.7dB) Max.	(Loss<2dB) Max.	Stopband Typ.	Frequency (MHz) 1.4:1		
3700	3800	4600	5200-9000	5000-9000	20:1	5000-9000	7	5

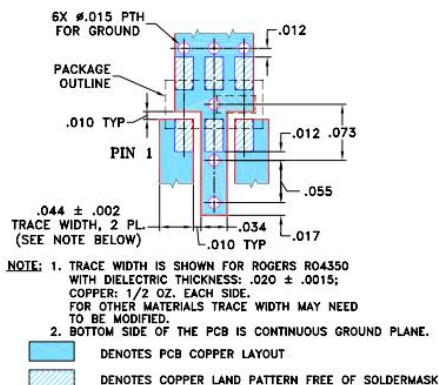
1. In Application where DC voltage is present at either input or output ports, coupling capacitors are required.

Typical Performance Data at 25° C

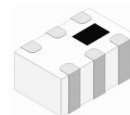
Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	VSWR (:1)
50	0.06	54.90	294.08
1500	0.26	29.43	65.07
2470	0.35	28.66	49.55
3700	0.70	3.38	24.67
3800	0.77	30.29	22.41
4150	1.07	17.33	16.26
4380	1.65	11.14	10.59
4500	2.27	8.41	7.69
4600	3.08	6.5	5.70
4720	4.62	4.64	3.86
5000	10.91	2.00	1.79
5200	18.00	1.36	1.29
8000	12.34	1.09	1.64
9000	8.83	1.42	2.13



Suggested PCB Layout



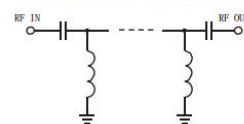
JY-HFCN-4600+



Generic photo used for illustration purposes only

50Ω 5000 to 9000 MHz

electrical schematic



Pin Connections

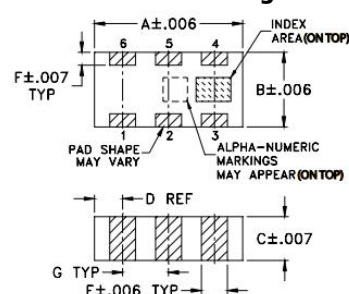
RF IN	1
RF OUT	3
GROUND	2,4,5,6

Maximum Ratings

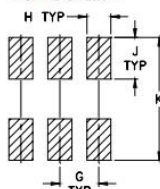
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

* Passband rating, derate linearly to 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 ±0.05

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