High Pass Filter

JY-HFCN-6010+



Generic photo used for illustration purposes only

50 Ω 6300 to 15000 MHz

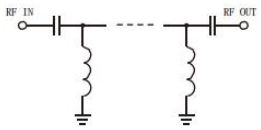
Features

- 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 schematic



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

STOP BAND (MHz) (Loss>30dB) Typ.	STOP BAND (MHz) (Loss>20dB) Min.	FCO,(MHz) Nom. (Loss 3dB) Typ.	PASS BAND (MHz) (Loss<3dB) Max.	PASS BAND (MHz) (Loss<5dB) Max.	VSWR (:1) Stopband Frequency (MHz) Typ.	VSWR (:1) Stopband Frequency (MHz) 1.5:1	POWER INPUT (W) Max	NO. OF SECTIONS
4800	4900	6100	6350-13000	6300-15000	20:1	6050-8000	7	5

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

Pin Connections

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

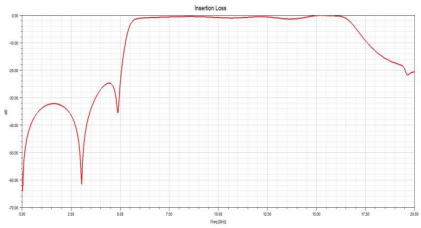
Maximum Ratings

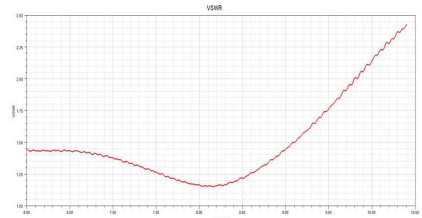
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25ºC

*Passband rating, derate linearly to 3.5W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

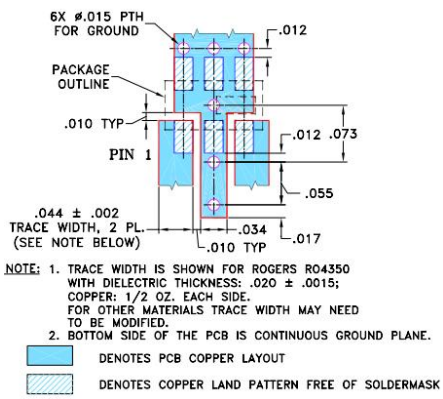
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	62.43	1732.18
900	38.60	1500.37
1760	35.58	157.9
2850	40.06	69.49
3770	39.69	32.79
4520	26.83	27.16
5380	6.27	4.72
5970	1.04	1.60
6550	0.87	1.47
7500	0.63	1.42
8480	0.49	1.34
9610	0.75	1.98
12530	0.66	2.12
15000	0.14	1.12
18000	13.19	32.61

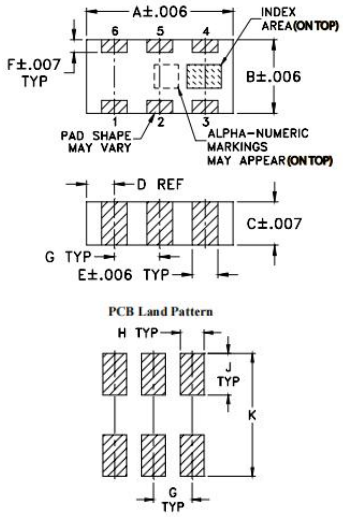




Suggested PCB Layout



Outline Drawing



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		

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Tel : +86 0755-27881106
Fax : +86 0755-27597069
Add : 806 Building B7, Tianrui Industrial Park, Fuyong Street, Baoan District, Shenzhen