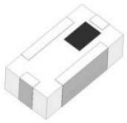
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

High Pass Filter

JY-HFCN-9700+

Features
- low cost
- small size
- temperature stable
- excellent power handling, 7W
- hermetically sealed

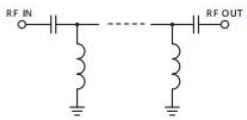
Applications
- sub-harmonic rejection
- transmitters/receivers
- lab use



Generic photo used for illustration purposes only

50Ω 9700 to 16980 MHz

Functional Schematic



Electrical Specifications[1] at 25°C

STOP BAND (MHz) (Loss>25dB) Typ.	STOP BAND (MHz) (Loss>18dB) Min.	FCO,(MHz) Nom. (Loss 3dB) Typ.	PASS BAND (MHz) (Loss<2dB) Max.	PASS BAND (MHz) (Loss<3dB) Max.	VSWR (:1) Stopband Typ.	VSWR (:1) Frequency (MHz) 1.5:1	POWER INPUT (W) Max	NO. OF SECTIONS
6770	7550	9070	11460-16570	9700-16980	20:1	9700-16980	7	5

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

Pad Connections

Input	1
Output	3
Ground	2,4

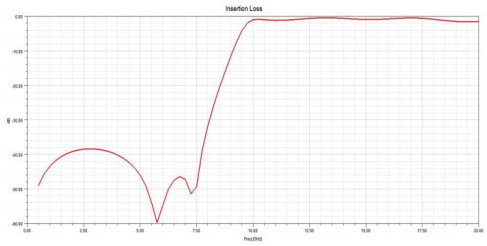
Maximum Ratings

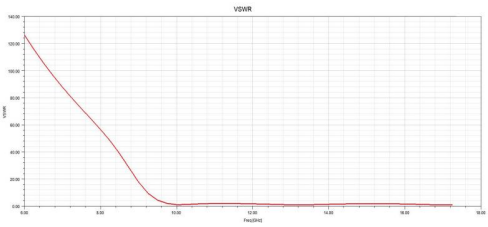
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

*Passband rating, derate linearly to 3W at 100°C ambient
Permanent damage may occur if any of these limits are exceeded.

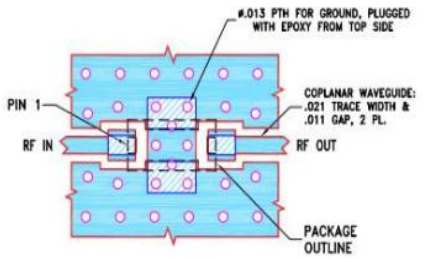
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
50	61.91	1737.18
1000	38.60	1500.37
1960	35.58	157.93
3250	40.06	69.49
4170	39.69	32.79
5020	26.83	27.16
6680	22.27	25.72
7570	20.04	21.40
9750	3.03	1.47
10500	1.92	1.46
11580	1.17	1.34
12610	1.73	1.40
13530	1.95	1.52
14550	1.65	2.03
17000	2.01	2.11





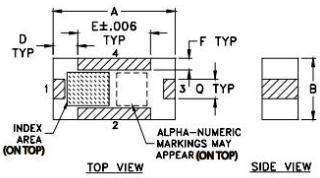
Suggested PCB Layout

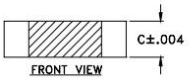


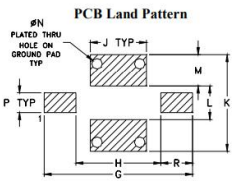
NOTES:
1. TRACE WIDTH & GAP PARAMETERS ARE SHOWN FOR ROGERS RO4350B WITH DIELECTRIC THICKNESS .010±.001. COPPER: 1/2 OZ. EACH SIDE. FOR OTHER MATERIALS TRACE WIDTH & GAP MAY NEED TO BE MODIFIED.
2. BOTTOM SIDE OF THE PCB IS CONTINUOUS GROUND PLANE.

DENOTES PCB COPPER LAYOUT WITH SMOBC (SOLDER MASK OVER BARE COPPER).
DENOTES COPPER LAND PATTERN FREE OF SOLDER MASK.

Outline Drawing







Suggested Layout
Tolerance to be within ±0.2

Outline Dimensions: Unit (mm)

A	3.20	B	1.60	C	0.94
D	0.66	E	1.91	F	0.30
G	4.62	H	2.64	J	1.75
K	3.02	L	1.04	M	0.99
N	0.33	P	0.61	Q	0.51
R	0.99	wt	0.020g		

JY-HFCN-9700+

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