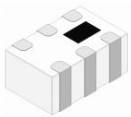
Jieying Communication Technology (Shenzhen) Co., Ltd.
http://www.jytxjs.cn

High Pass Filter

JY-HFCN-2700AD+

Features
- excellent power handling
- Small size
- 5 sections
- temperature stable
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

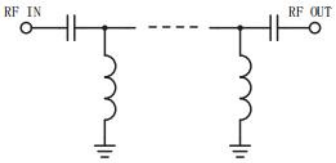
Applications
- sub-harmonic rejection
- transmitters/receivers
- base station of mobile communication and lab use



Generic photo used for illustration purposes only

50 Ω 2900 to 8700 MHz

electrical schematic



Electrical Specifications [1] (TAMB= 25° C)

STOP BAND (MHz) (Loss>20dB) Min.	FCO,(MHz) Nom. (Loss 3dB) Typ.	PASS BAND (MHz) (Loss<1.7dB) Max.	VSWR (:1) Stopband Typ.	VSWR (:1) Frequency (MHz) 1:5:1	POWER INPUT (W)	NO. OF SECTIONS
2150	2880	3070-8500	20:1	3400-8700	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

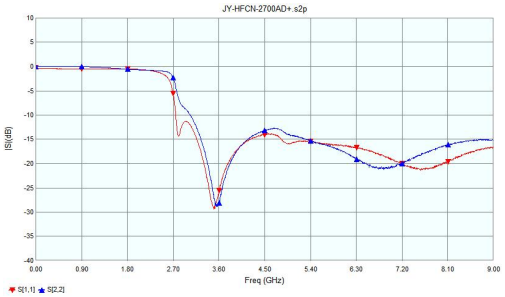
Maximum Ratings

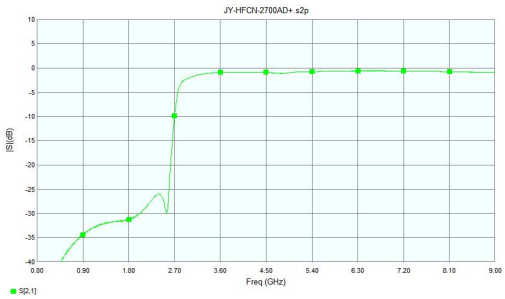
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7 W max. at 25°C

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

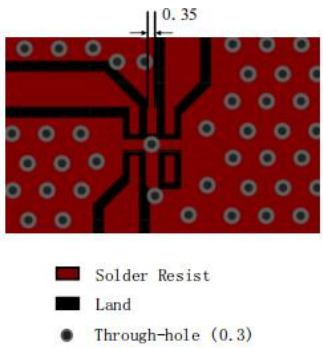
Typical Performance Data at 25° C

Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	VSWR (:1)
5	0.11	78.03	151.59
240	0.19	55.90	90.72
1000	0.33	34.55	53.05
1650	0.40	31.36	43.94
2150	0.69	29.66	25.24
2270	0.84	28.29	20.73
2700	3.39	16.04	5.20
3000	11.10	2.08	1.77
3070	11.31	1.77	1.75
3400	18.72	0.92	1.26
6000	16.90	0.50	1.33
8500	15.85	0.81	1.38
8700	15.17	0.86	1.42
9000	14.76	0.91	1.45



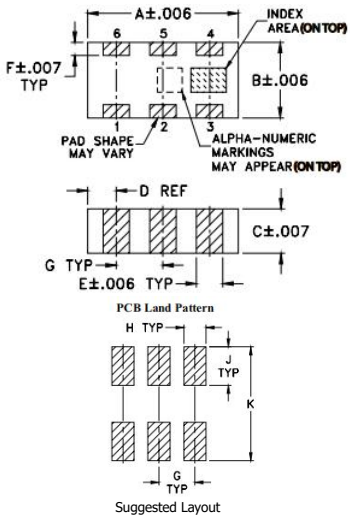


Recommended PC Board Pattern



* Line width should be designed to match 50 characteristic impedance, depending on PCB material and thickness.

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	0.02g		

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