High Pass Filter

HT-HFCN-7971+

50 Ω 8560 to 12800 MHz

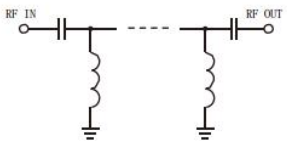
Features

- 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 (T_{AMB}= 25° C)

STOP BAND (MHz) (Loss>25dB) Typ.	STOP BAND (MHz) (Loss>17dB) Min.	FCO,(MHz) Nom. (Loss 3dB) Typ.	PASS BAND (MHz) (Loss<4dB) Max.	PASS BAND (MHz) (Loss<2.0dB) Max.	VSWR (:1) Stopband Typ.	VSWR (:1) Frequency (MHz) 1.5:1	POWER INPUT (W) Max	NO. OF SECTIONS
5500	6500	8000	8560-12800	9975-12350	20:1	8560-12800	7	5

Pin Connections

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

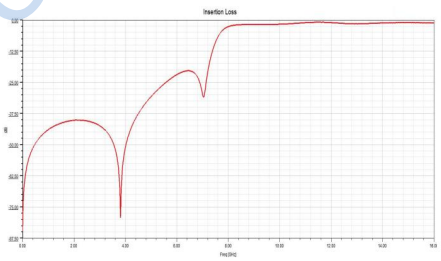
Maximum Ratings

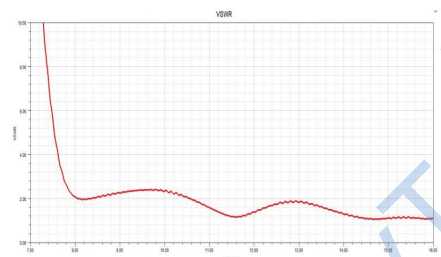
Operating Temperature	-55°C to 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W at 25°C

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

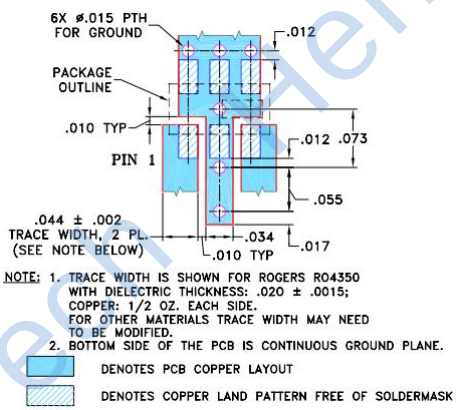
Typical Performance Data at 25° C

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
5680	22.27	25.72
6470	20.04	21.40
7550	9.03	2.47
8500	1.93	2.02
9480	1.81	2.34
10610	1.41	2.01
11530	0.92	1.52
12440	1.35	1.93
14000	1.19	1.61

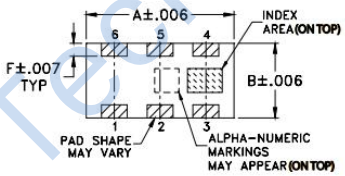


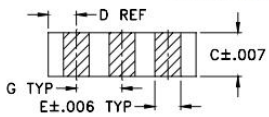


Suggested PCB Layout

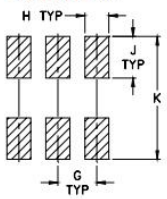


Outline Drawing





PCB Land Pattern



Suggested Layout
Tolerance to be within ±0.02

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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