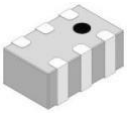
HenryTech

High Pass Filter

HT-HFCN-4600+

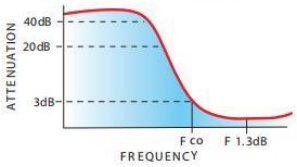


50Ω 5000 to 9000 MHz

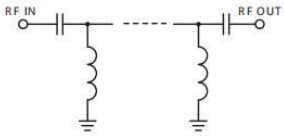
Features
- Low cost
- Small size
- 5 sections
- Temperature stable
- Excellent power handling
- LTCC construction with great moisture resistance, corrosion resistance, and high reliability

Applications
- Sub-harmonic rejection
- Transmitters / receivers
- base station of mobile communication and lab use

typical frequency response



electrical schematic



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

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

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	129
8000	12.34	1.09	1.64
9000	8.83	1.42	2.13

Pin Connections

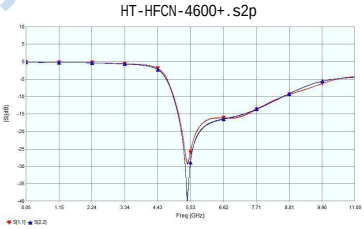
RF IN	1
RF OUT	3
GROUND	2,4,5,6

Maximum Ratings

Operating Temperature	-55°C to 85°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.
Typical Performance Data at 25oC
Frequency Insertion Loss VSWR
(MHz) (dB) (:1)
Permanent damage may occur if any of these limits are exceeded.

HT-HFCN-4600+.s2p



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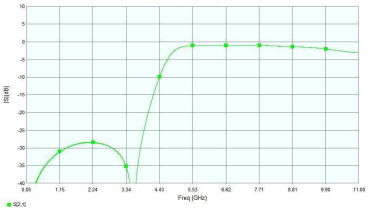
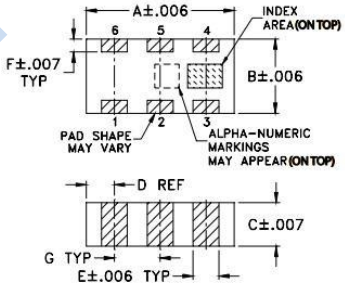
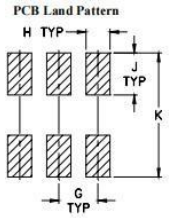


Outline Drawing

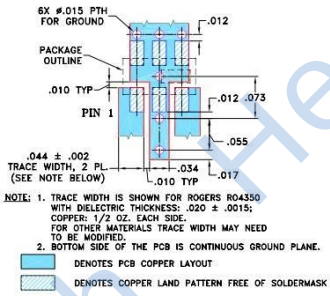


PCB Land Pattern



Suggested Layout
Tolerance to be within ±0.02

Demo Board P/N: TB-285
Suggested PCB Layout (PL-158)



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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