High Pass Filter

HT-HFCN-1500+

50Ω 1600 to 5500 MHz

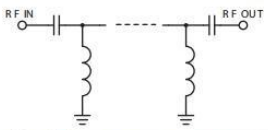
Features

- low cost
- small size
- 7 sections
- temperature stable
- hermetically sealed
- LTCC construction
- excellent power handling, 7W

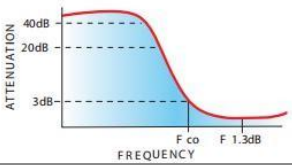
Applications

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

electrical schematic



typical frequency response



Electrical Specifications (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<1.3dB) Max.	PASS BAND (MHz) (Loss<2dB) Max.	VSWR (:1) Stopband Frequency (MHz) 1.5:1	POWER INPUT (W)	NO. OF SECTIONS
1060	1250	1550	1850-4400	1600-5500	20:1 1620-3450	7	7

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.

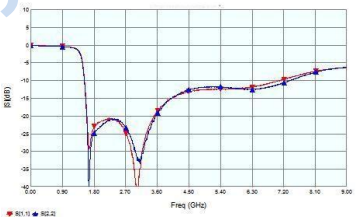
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (:1)
1	85.04	3056.88
100	59.12	178.78
1060	47.45	32.79
1250	31.82	20.63
1400	12.19	8.19
1480	5.29	3.25
1550	2.52	1.62
1600	1.78	1.22
1620	1.60	1.14
1850	0.91	1.16
2000	0.74	1.19
3450	0.38	1.19
4400	0.55	1.55
5500	0.57	1.63
7700	1.07	2.24
9000	1.85	2.87

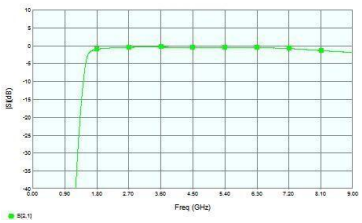
Pin Connections

RF IN	1
RF OUT	3
GROUND	2,4

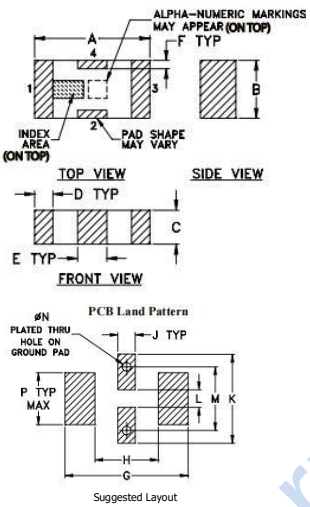
HT-HFCN-1500+ s2p



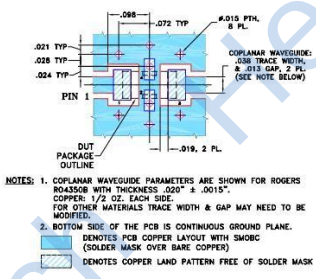
HT-HFCN-1500+ s2p



Outline Drawing



Demo Board P/N: TB-270
Suggested PCB Layout (PL-137)



Outline Dimensions：Unit (mm)

A	3.20	B	1.60	C	0.94
D	0.51	E	0.81	F	0.23
G	4.29	H	2.21	J	0.61
K	3.10	L	0.61	M	2.21
N	0.30	P	1.80	wt	0.02g

Tel：+86-28-85589664 Web：www.hltchips.com
Adress：No. 198, Tianqin East Street, High-tech West District, Chengdu