

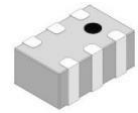
Features

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

Applications

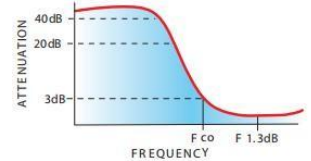
- Sub-harmonic rejection
- Transmitters / receivers
- base station of mobile communication and lab use

HT-HFCN-4600+

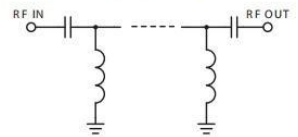


50Ω 5000 to 9000 MHz

typical frequency response



electrical schematic



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 25°C
Frequency Insertion Loss VSWR (MHz) (dB) (:1)
Permanent damage may occur if any of these limits are exceeded.

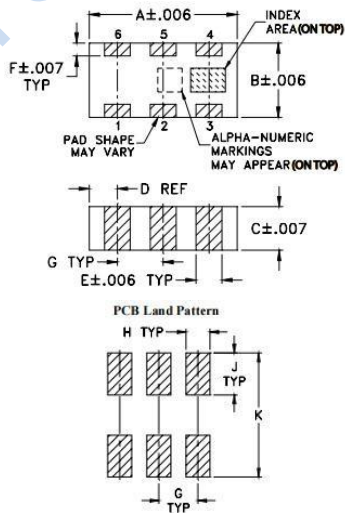
Electrical Specifications (T_{AMB}= 25° C)

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

Typical Performance Data at 25° C

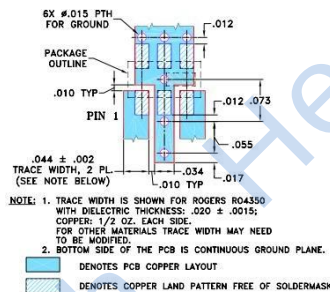
Frequency (MHz)	Return Loss (dB)	Insertion Loss (dB)	VSWR (:1)
50	0.06	54.90	294.08
1500	0.26	29.43	65.07
2470	0.35	28.66	49.55
3700	0.70	3.38	24.67
3800	0.77	30.29	22.41
4150	1.07	17.33	16.26
4380	1.65	11.14	10.59
4500	2.27	8.41	7.69
4600	3.08	6.5	5.70
4720	4.62	4.64	3.86
5000	10.91	2.00	1.79
5200	18.00	1.36	1.29
8000	12.34	1.09	1.64
9000	8.83	1.42	2.13

Outline Drawing



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		

