

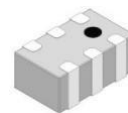
Features

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

Applications

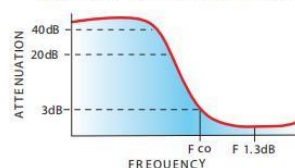
- Sub-harmonic rejection
- Transmitters / receivers
- base station of mobile communication and lab use

HT-HFCN-6010+

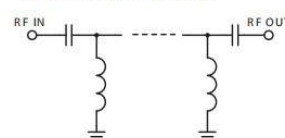


50 Ω 6300 to 15000 MHz

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 100°C
Storage Temperature	-55°C to 100°C
RF Power Input	7W 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.

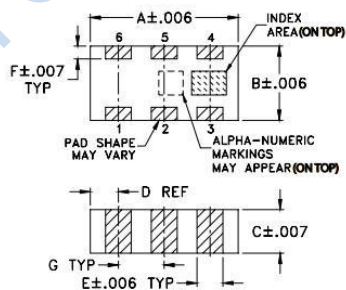
Electrical Specifications (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO ₄ (MHz) Nom.	PASS BAND (MHz)		VSWR (-1)	POWER INPUT (W)	NO. OF SECTIONS	
(Loss > 30dB) Typ.	(Loss > 20dB) Min.	(Loss 3dB) Typ.	(Loss < 3dB) Max.	(Loss < 5dB) Max.	Stopband Frequency (MHz) 1.5:1 Typ.	Max		
4800	4900	6100	6350-13000	6300-15000	20:1		7	5

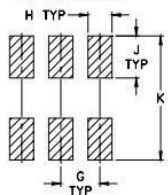
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (-1)
50	62.43	1732.18
900	38.60	1500.37
1760	35.58	157.9
2850	40.06	69.49
3770	39.69	32.79
4520	26.83	27.16
5380	6.27	4.72
5970	1.04	1.60
6550	0.87	1.47
7500	0.63	1.42
8480	0.49	1.34
9610	0.75	1.98
12530	0.66	2.12
15000	0.14	1.12
18000	13.19	32.61

Outline Drawing

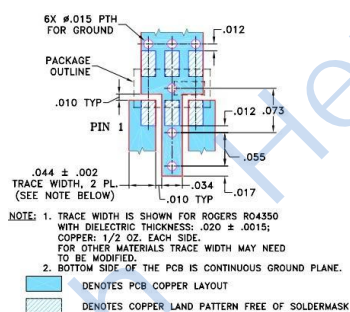


PCB Land Pattern



Suggested Layout
Tolerance to be within ±0.02

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



Outline Dimensions: Unit (mm)

Dimension	Value	Dimension	Value	Dimension	Value
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

