

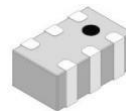
Features

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

Applications

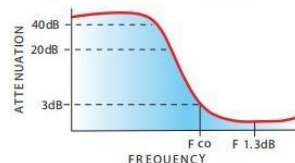
- Sub-harmonic rejection
- Transmitters / receivers
- base station of mobile communication and lab use

HT-HFCN-7150+

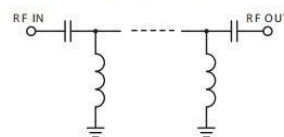


50 Ω 7900 to 11000 MHz

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 3W at 100°C ambient.
Permanent damage may occur if any of these limits are exceeded.

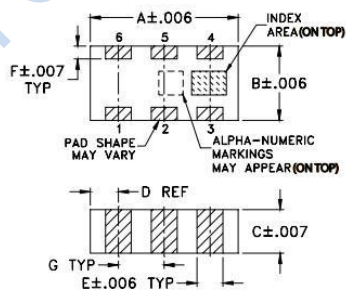
Electrical Specifications (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO _A (MHz) Nom.	PASS BAND (MHz)		VSWR (-1)	POWER INPUT (W)	NO. OF SECTIONS	
(Loss > 30dB) Typ.	(Loss > 20dB) Min.	(Loss < 3dB) Typ.	(Loss < 2.5dB) Max.	(Loss < 3.5dB) Max.	Stopband Frequency (MHz) 1.5:1 Typ.	Max		
5100	6150	7150	8500-10500	7900-11000	20:1		7	5

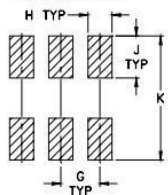
Typical Performance Data at 25° C

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
1244	1.35	1.93
14000	1.19	1.61

Outline Drawing

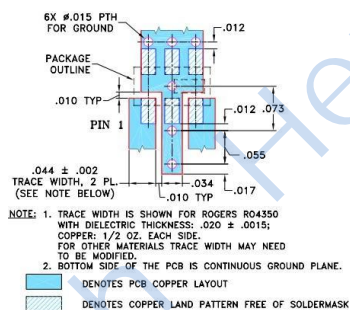


PCB Land Pattern



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

