

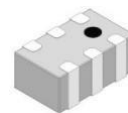
Features

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

Applications

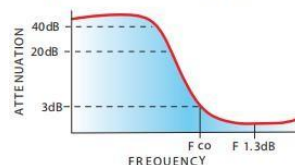
- Sub-harmonic rejection
- Transmitters / receivers
- base station of mobile communication and lab use

HT-HFCN-8400+

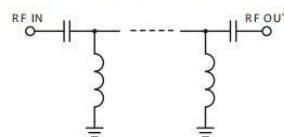


50Ω 9000 to 13000 MHz

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.

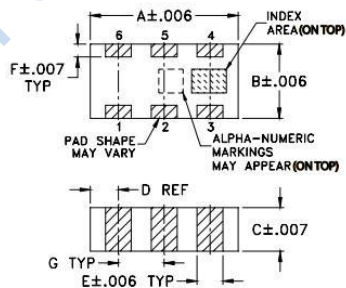
Electrical Specifications (T_{AMB}= 25° C)

STOP BAND (MHz)		FCO(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 < 3dB) Max.	Stopband Frequency (MHz) 1.5:1 Typ.		Max		
5700	6000	8400	9500-13000	9000-13000	20:1	9000-13000	7	5	

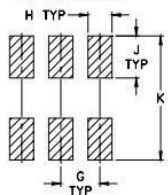
Typical Performance Data at 25° C

Frequency (MHz)	Insertion Loss (dB)	VSWR (-1)
50	55.48	1737.18
500	41.57	868.59
4500	31.17	49.64
5700	36.69	31.60
6000	27.78	29.46
7500	23.46	17.05
8020	9.65	5.68
8400	2.88	1.50
8600	2.11	1.15
9000	1.57	1.06
9500	1.43	1.24
10000	1.47	1.46
12000	0.92	1.22
13000	1.10	1.48
16000	5.43	4.72

Outline Drawing

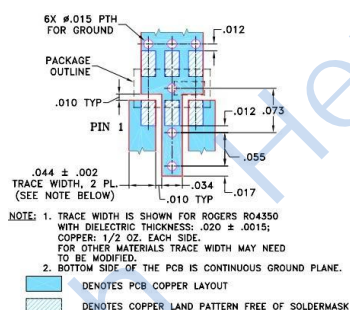


PCB Land Pattern



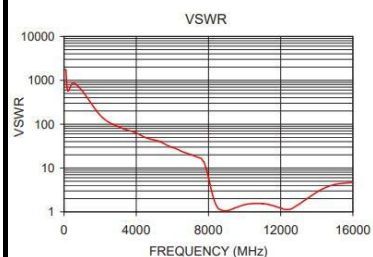
Suggested Layout
Tolerance to be within ±0.02

Demo Board MCL 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		



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