成都恒利泰科技有限公司
Chengdu HenryTech Technology co., Ltd

LTCC 带通滤波器（LTCC Bandpass Filter） HT-B4842-1.2-1.6G+

50Ω 1.2GHz to 1.6GHz

Features

- Extremely wide passband, 1.2-1.6GHz
- Small size
- Temperature stable
- LTCC construction

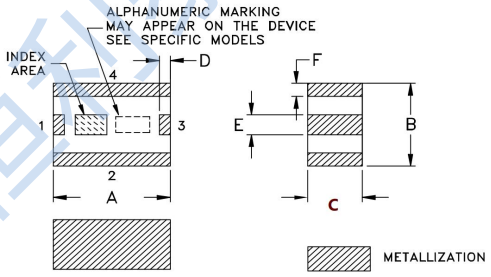
Applications

- Wireless communication
- Harmonic Rejection
- Transmitters / receivers

Pad Connections

Input	1
Output	3
Ground	2、4

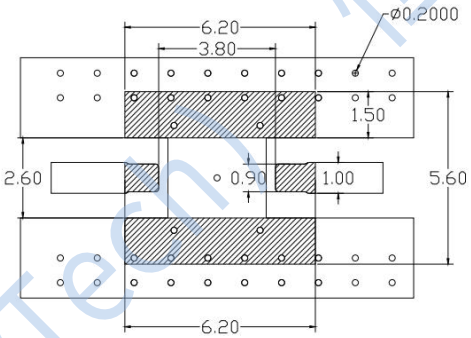
Outline Drawing



Outline Dimensions： mm

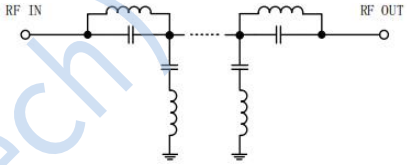
A	B	C	D	E	F	Tol.
4.8	4.2	2.0 max	0.4	0.8	0.4	±0.2

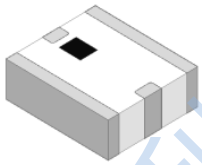
Suggested PCB Layout



Note:
1.The trace width and spacing are as shown in the figure, using RO4350B dielectric with a thickness of 0.508 mm. The copper thickness on both sides is 1 / 2 OZ. If other materials are used, the trace width and spacing may need to be adjusted.
2.Continuous copper pour is applied on the back layer.

Functional Schematic

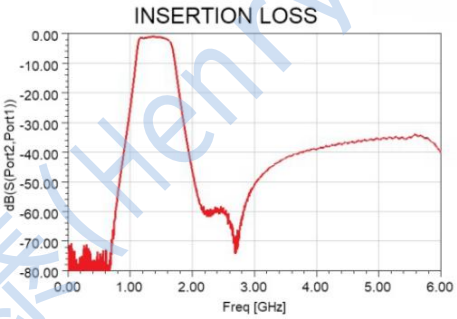


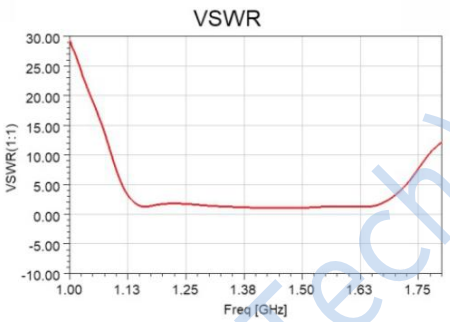


Electrical Specifications(1) at 25°C

Parameter		Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	—	1400	—	MHz
	Insertion Loss	1200-1600	—	—	3.5	dB
	VSWR	1200-1600	—	—	2.0	: 1
	Phase Uniformity	1200-1600	—	—	|±6|	deg
Stop Band	Rejection Loss	DC-900	35	—	—	dB
		1900-5000	30	—	—	

Typical Performance Data at 25°C





Maximum Ratings

Operating Temperature	-55°C to +125°C
Storage Temperature	-55°C to +125°C
RF Power Input*	2W at 25°C

*1. Permanent damage may occur if any of these limits are exceeded.
2. Power rating applies only to signals within the passband.

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