

LTCC 带通滤波器 (LTCC Bandpass Filter) HT-B5048-960-1224M+

Features

- Low Insertion Loss.
- Excellent power handling.
- Good rejection.
- Temperature stable.
- LTCC construction , and has good moisture resistance, corrosion resistance, high reliability.

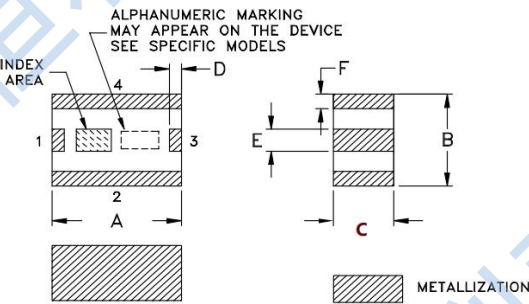
Applications

- Harmonic Rejection.
- Transmitters / Receivers.
- Software defined radio.
- WLAN.
- Cellular network.

Pad Connections

Input	1
Output	3
Ground	2、4

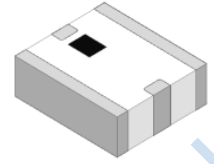
Outline Drawing



Outline Dimensions

A	B	C	D	E	F	Unit
5.0±0.3	4.8±0.35	2.0 Max.	0.35	0.70	0.40	mm

50 Ω
960MHz to 1224MHz

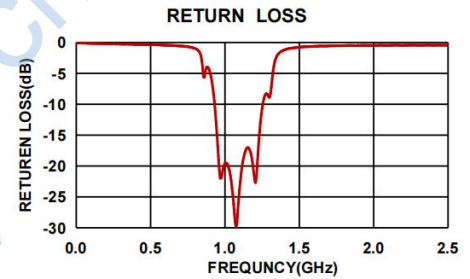
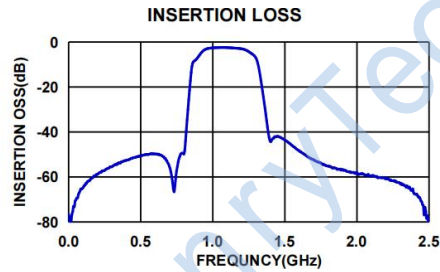


Electrical Specifications(1,2) at 25°C

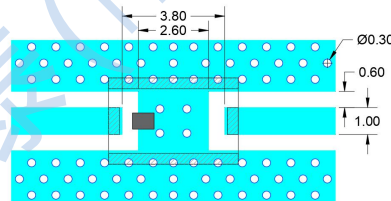
Parameter	Frequency (MHz)	Min.	Typ.	Max.	Unit
Pass Band	Center Frequency	—	1092	—	MHz
	Insertion Loss	960 - 1224	—	4.0	dB
	Passband Ripple	960 - 1224	—	1.5	dB
	VSWR	960 - 1224	—	2.0	:1
Stop Band, Lower	Rejection	0-800	40	—	dB
Stop Band, Upper	Rejection	1400-2000	40	—	dB

(1) The specifications are tested at 25°C±5°C, relative humidity 55~75%.

(2) Other quality and characteristic not specify in this datasheet.



Suggested PCB Layout



Note:

- 1.The line width and line spacing are as shown in the figure. Use 0.508mm thick RO4350B dielectric material with 1/2 oz copper cladding on both sides. If other materials are used, the line width and spacing may need to be adjusted.
- 2.The bottom side of the PCB shall be fully covered with copper.
- 3.Unit: mm

Maximum Ratings

Operating Temperature	-55°C to +100°C
Storage Temperature	-55°C to +100°C
RF Power Input*	2W at 25°C

*Permanent damage may occur if any of these limits are exceeded.