

Characteristics and Application

Low temperature drift, high power.

Small size, easy to integrate.

Technical parameters superior to LTCC filters.

Applied in fields such as radar, electronic countermeasures, and mobile communication.

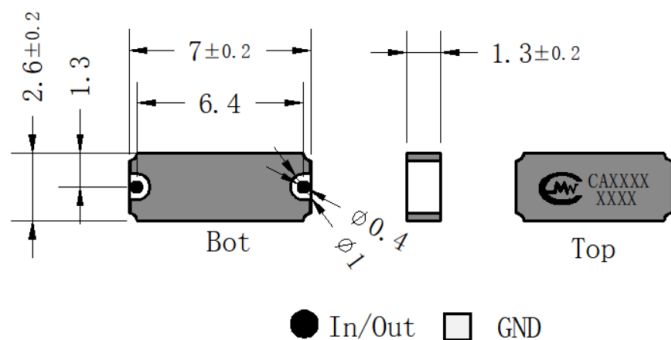
Tech specifications

Items	Parameters	Units
Center Frequency	27.5	GHz
Bandwidth	24.2-30.8	GHz
Center loss	2.0	dB
Ripple	1.0	dB
VSWR	2.0:1	
Rejection	30@DC-20.0GHz	dBc
Rejection	30@35.0-40.0GHz	dBc

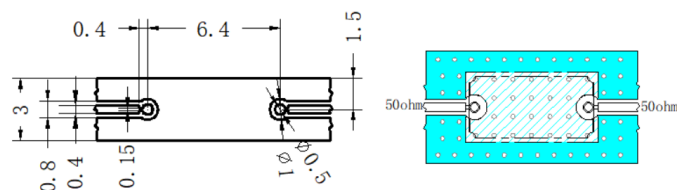
Other requirement (Design assurance)

power	2W CW
Operation Temp.	-55~+85°C
Storage Temp.	-55~+85°C

Configuration



Suggested PCB Layout

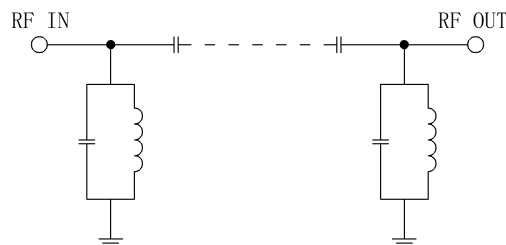


PCB: ER: 3.38, H: 0.203mm

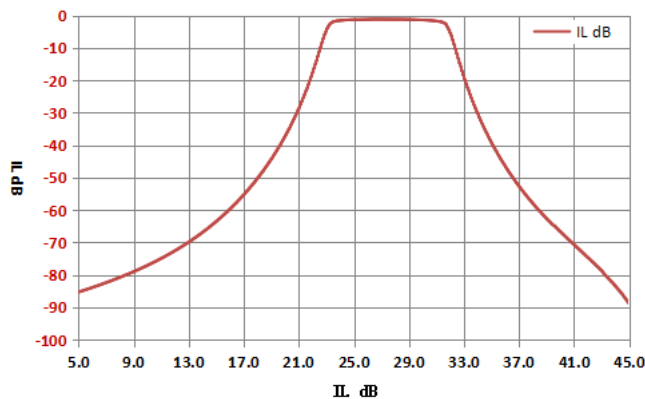
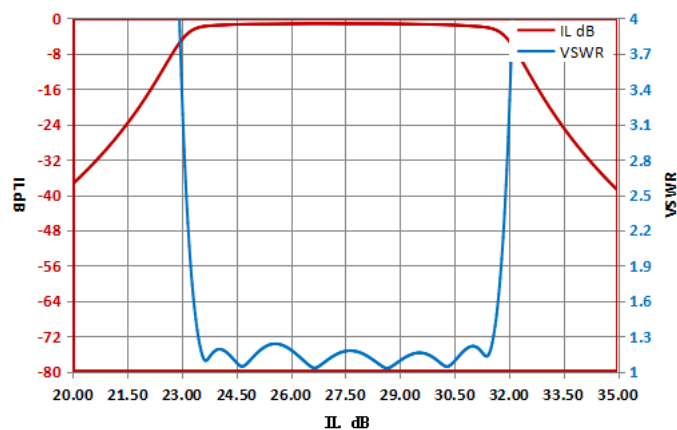
Reference picture



Schematic diagram



Typical test curve



Note

1: Suggest using separate chambers with interchangeable ports, with a distance of 1.0mm from the side wall on one side and a distance of 2.0mm from the top cover on the surface. Supports reflow soldering at 260 °C;

2: Good grounding is necessary to maximize the performance of the filter.

3: During the cleaning process, the filter should not be immersed in the cleaning solution for a long time;

4: Filling absorbing material above the filter can achieve better harmonic suppression.