

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.

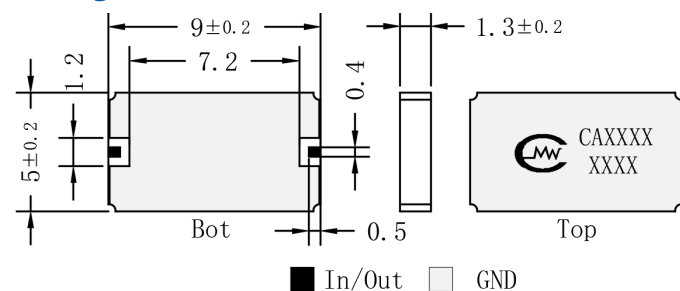
Tech specifications

Items	Parameters	Units
Center Frequency	6.15	GHz
Bandwidth	5.5-6.8	GHz
Center loss	1.5	dB
Ripple	1.0	dB
VSWR	1.7:1	
Group delay ripple	0.5	ns
Rejection	40@DC-4.5GHz	dBc
Rejection	40@7.8-14.0GHz	dBc

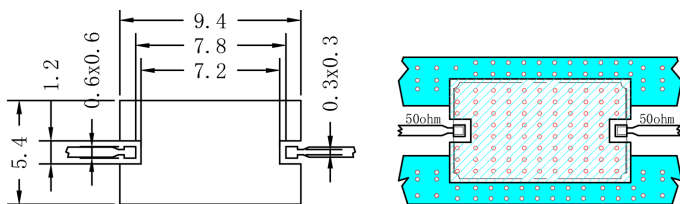
Other requirement (Design assurance)

power	5W CW
Operation Temp.	-55~+85°C
Storage Temp.	-55~+85°C

Configuration



Suggested PCB Layout



PCB: R04350B, H: 0.254mm

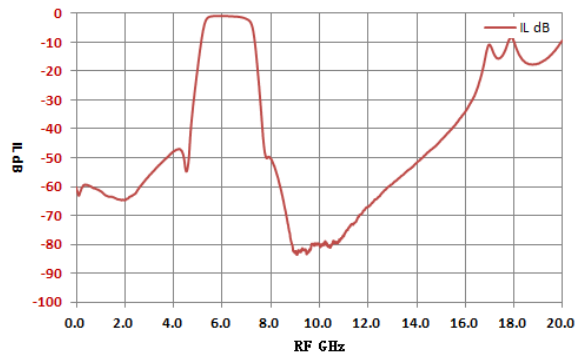
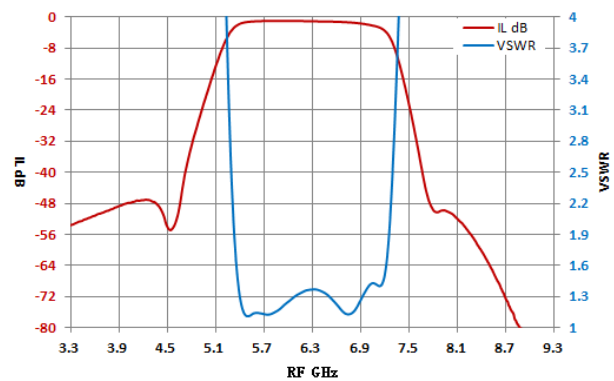
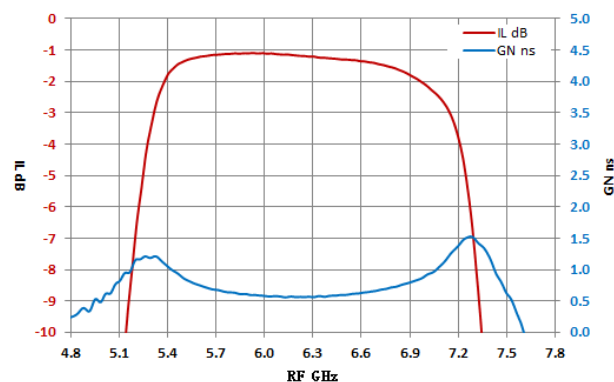
Reference picture



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: Grounding is very important, only good grounding can 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.