

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.

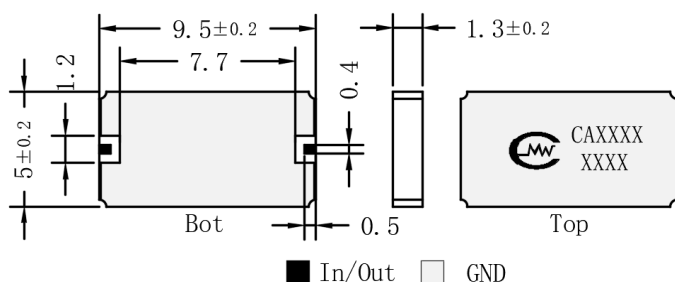
Tech specifications

Items	Parameters	Units
Center Frequency	3.975	GHz
Bandwidth	3.65-4.3	GHz
Center loss	1.4	dB
Ripple	0.8	dB
VSWR	1.7:1	
Group delay ripple	0.5	ns
Rejection	40@DC-2.9GHz	dBc
Rejection	40@5.5-10.0GHz	dBc

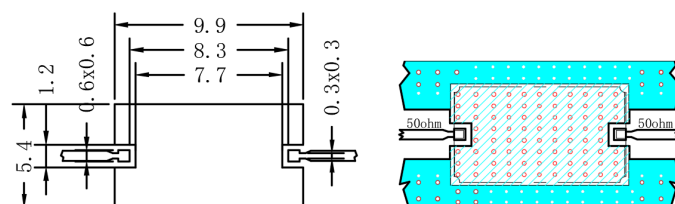
Other requirement (Design assurance)

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

Configuration



Suggested PCB Layout



PCB: R04350B, H: 0.254mm

Reference picture



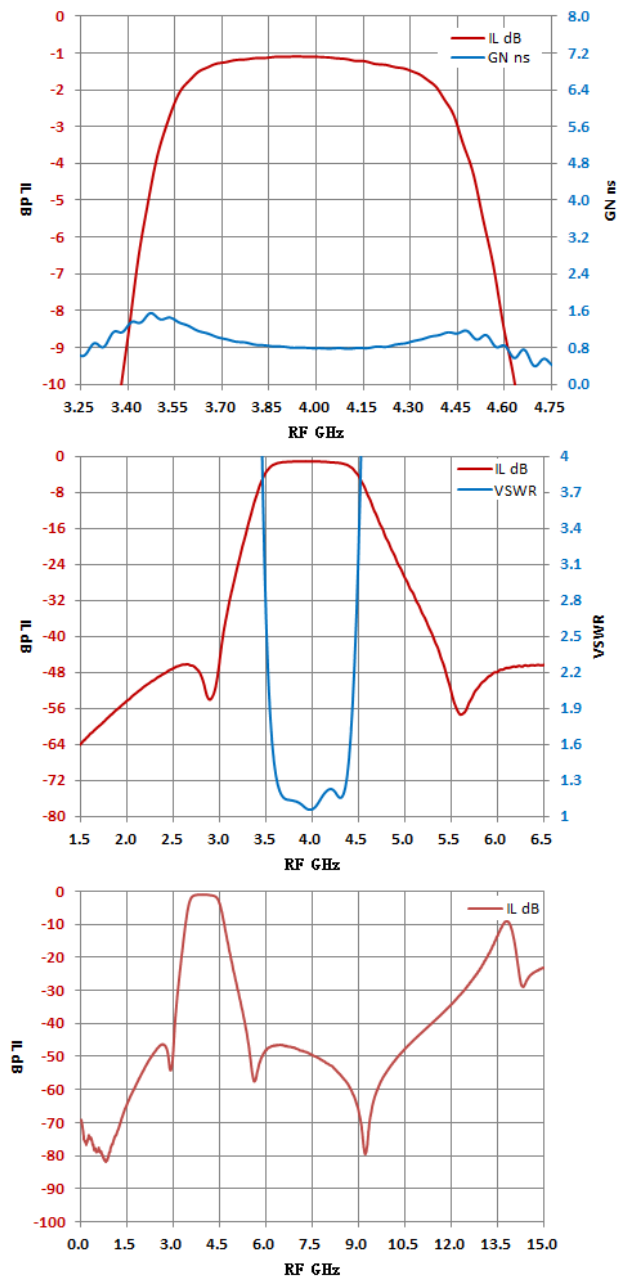
Schematic diagram



Note

1. It is recommended to use it separately, with a distance of 1mm from the side wall and 2mm from the upper cover, It supports 260 °C reflow soldering;
- 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.

Typical test curve



Note: The specifications and performance data contained in this data sheet are based on tests established by CMW.