

Features

- X-band, 8.XX GHz Center Frequency
- SMA Female Interface
- High power handling at low pressure
- Low Insertion Loss, Low VSWR
- High out of band rejection

Applications

Test & Measurement

Satellite

Military and Space

Radar

Antenna Systems

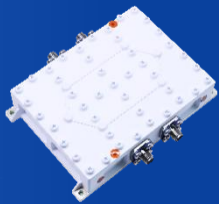
Communication Systems

Description

This X-band cavity filter adopts a cavity filter structure with a bandwidth of 40 MHz. The insertion loss of the product is less than 0.5 dB, and the out-of-band rejection is greater than 100 dB. Its low-pressure power handling capability exceeds 4 W. It is used to filter processor signals and provide out-of-band rejection. The product features a compact structure, with an SMA Female coaxial RF interface.

Technical Specifications

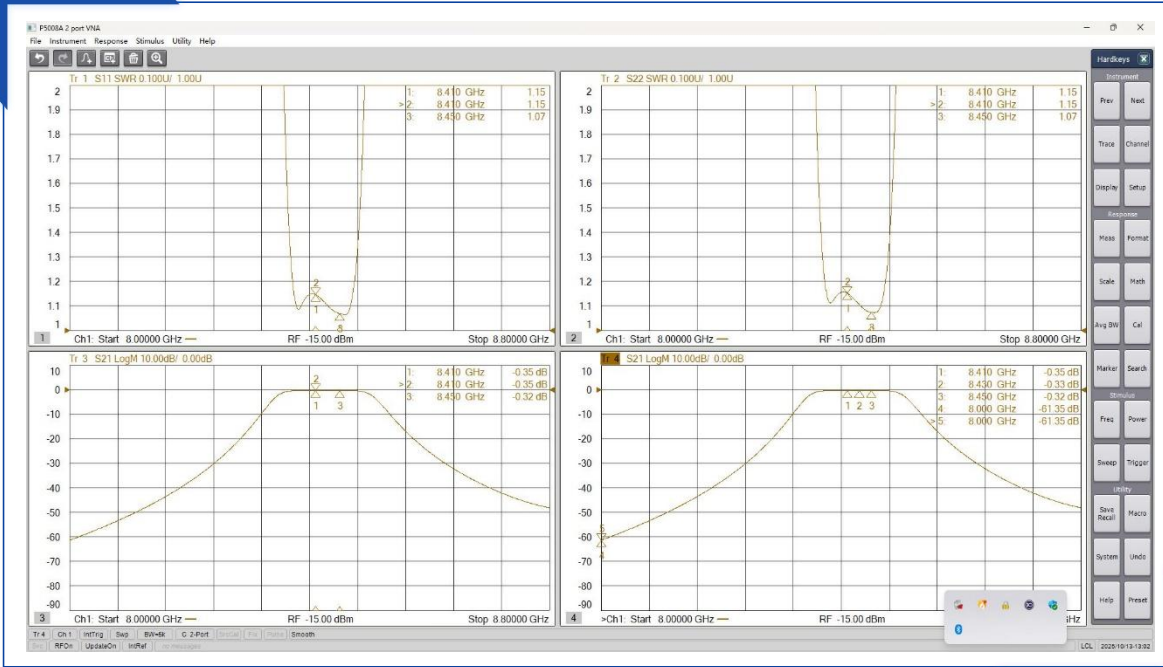
Parameters	Min.	Typ.	Max.	Units
Center Frequency		8.XX		GHz
Bandwidth		± 20		MHz
Insertion Loss			0.5	dB
Out-of-Band Rejection	≥100@7.145GHz~7.190GHz			dB
VSWR			1.3:1	
Input Power		36		dBm



Parameters	Min.	Typ.	Max.	Units
Operating Temperature Range	-35		+70	°C
Main Body Material	Aluminum Alloy			
Surface Treatment	White Paint			
Size	104*88*25.5			mm

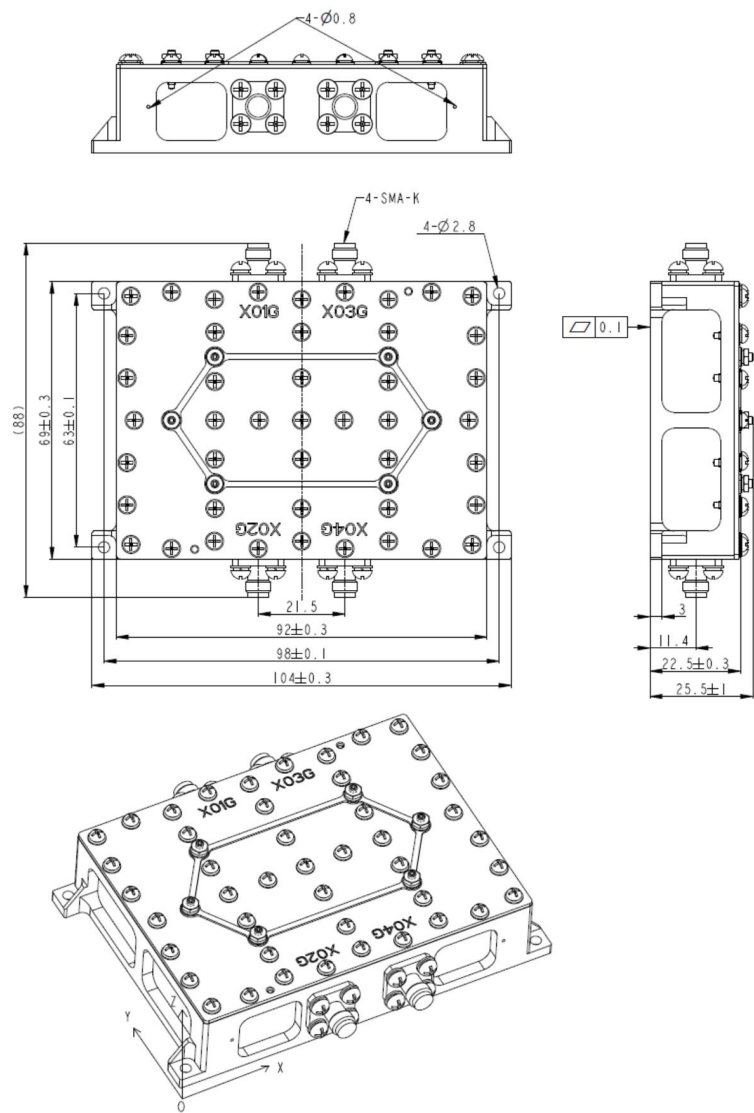
Notes:
Values at 25°C, sea level.

Typical Performances



Performance Test Curve

Outline Drawing:



- NOTES:**
- 1.UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
 - 2.ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE.
 - 3.DIMENSIONS ARE IN mm.

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	X-band Cavity Filter		
	XH2.832.0007	REV	DATE
		V1.0	2026.4.9
		SCALE 1:1	