

Cavity Band Rejection Filter with SMA Female Connectors Operating From 758 MHz to 803 MHz, Up to 10W CW



Feature

- Stop Band Frequency: 758~803MHz
- Pass Band Frequency: DC~735MHz & 849~2300MHz
- Power Handling: Up to 10W CW
- SMA-Female Connectors
- Stop Band Rejection: ≥60 dB
- Low Insertion Loss: ≤1.5 dB
- Excellent VSWR: ≤1.7:1 across passband

Applications

- Aerospace & Defense
- Test & Measurement
- Microwave Radio Systems
- Military & Commercial Communication Systems
- Research & Development
- Wireless Communications
- Enterprise
- IoT

Description

The BSF-MAJMAJ-0758-0803-01 is a high-performance cavity band rejection filter designed to provide deep and selective suppression of signals within the 758 to 803 MHz frequency band. It features a wide passband covering DC to 735 MHz and 849 to 2300MHz with low insertion loss, making it an ideal solution for eliminating specific interference while maintaining signal integrity across a broad spectrum.

Engineered with a precision aluminum alloy cavity, this filter ensures excellent stopband rejection of ≥60 dB, low passband loss of ≤1.5dB, and a high power handling capacity of up to 10W CW. Its robust construction and standard SMA-Female interfaces guarantee reliable operation in demanding applications such as communications infrastructure, radar systems, and advanced test setup.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Stop Band Frequency	758		803	MHz
Stop Band Rejection	60			dB
Pass Band Frequency (Low)	DC		735	MHz
Pass Band Frequency (High)	849		2300	MHz
Pass Band Insertion Loss			1.5	dB
Pass Band VSWR @ DC ~ 735MHz			1.5:1	
Pass Band VSWR @ 849 ~ 2000MHz			1.5:1	
Pass Band VSWR @2000~2300MHz			1.7:1	
Impedance		50		Ohms
Input Power (CW)			10	Watts

Electrical Specification Notes: Values at 25°C, sea level.

Mechanical Specifications

Size

Length	10.1 in [265 mm]
Width	3.14 in [80 mm]
Height	1.10 in [28 mm]

Connectors

Connector 1	SMA Female
Connector 2	SMA Female

Environmental Specifications

Temperature

Operating Temperature:	-20°C ~ +60°C
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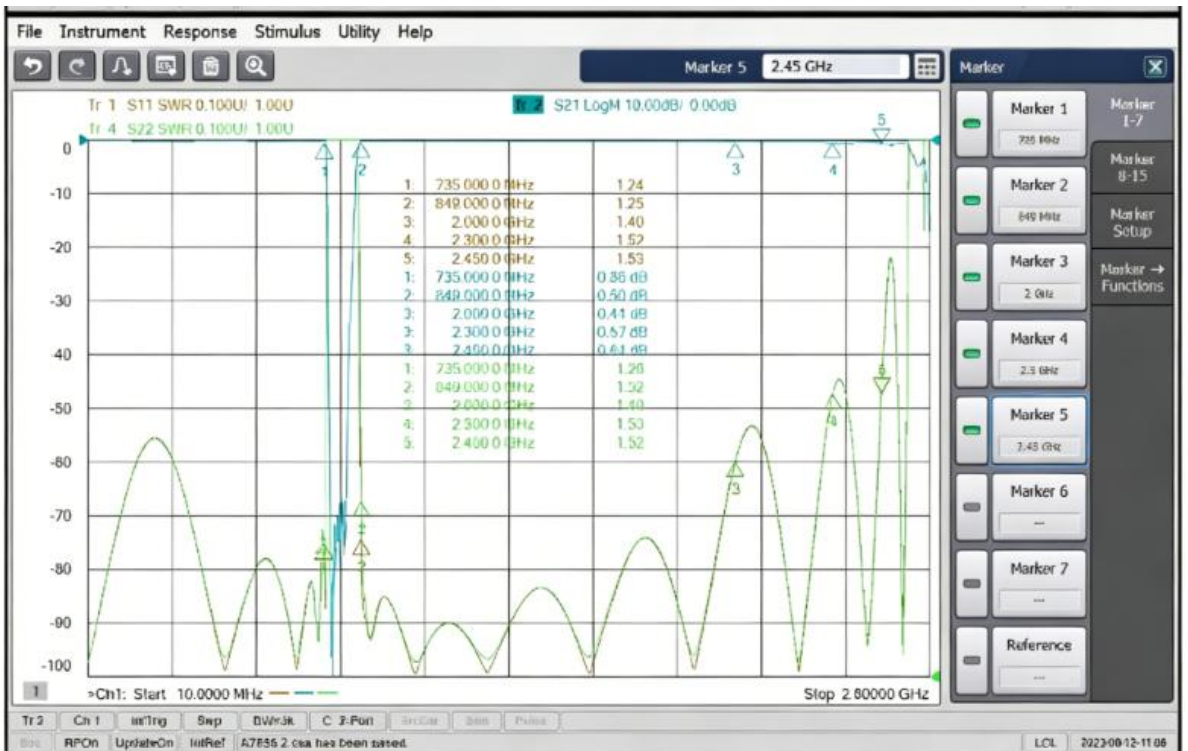
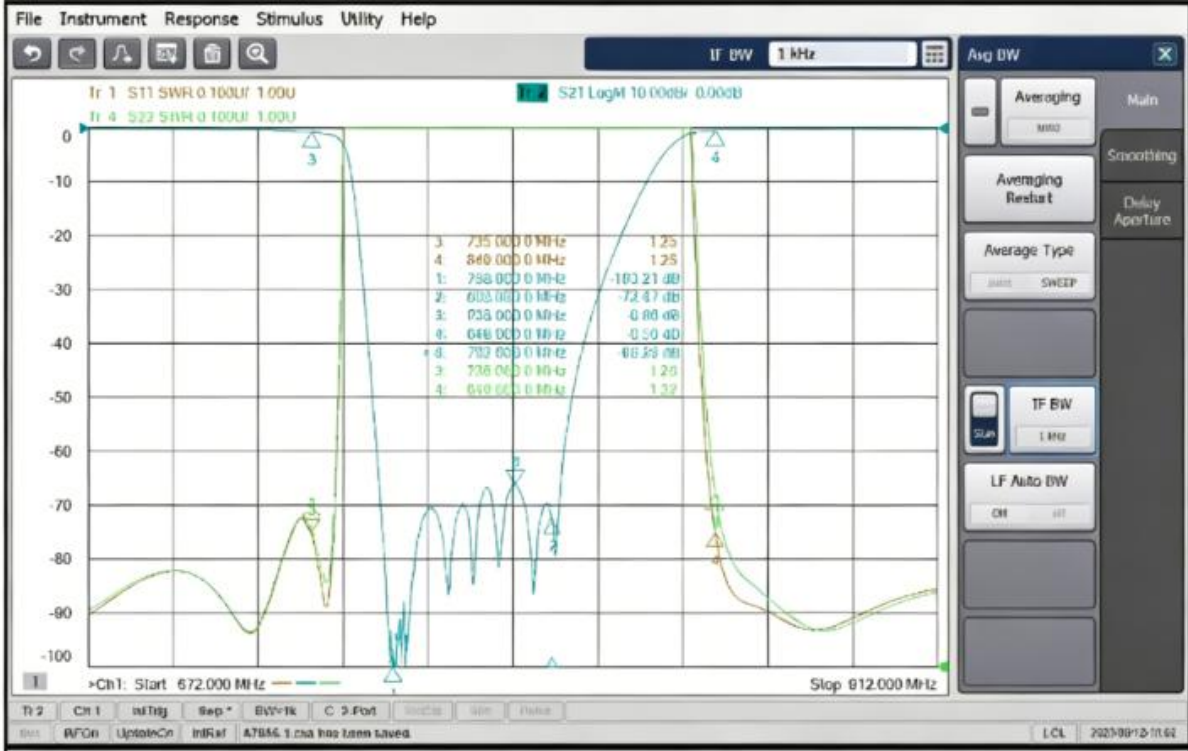
Compliance Certifications

RoHS Compliant	REACH Compliant
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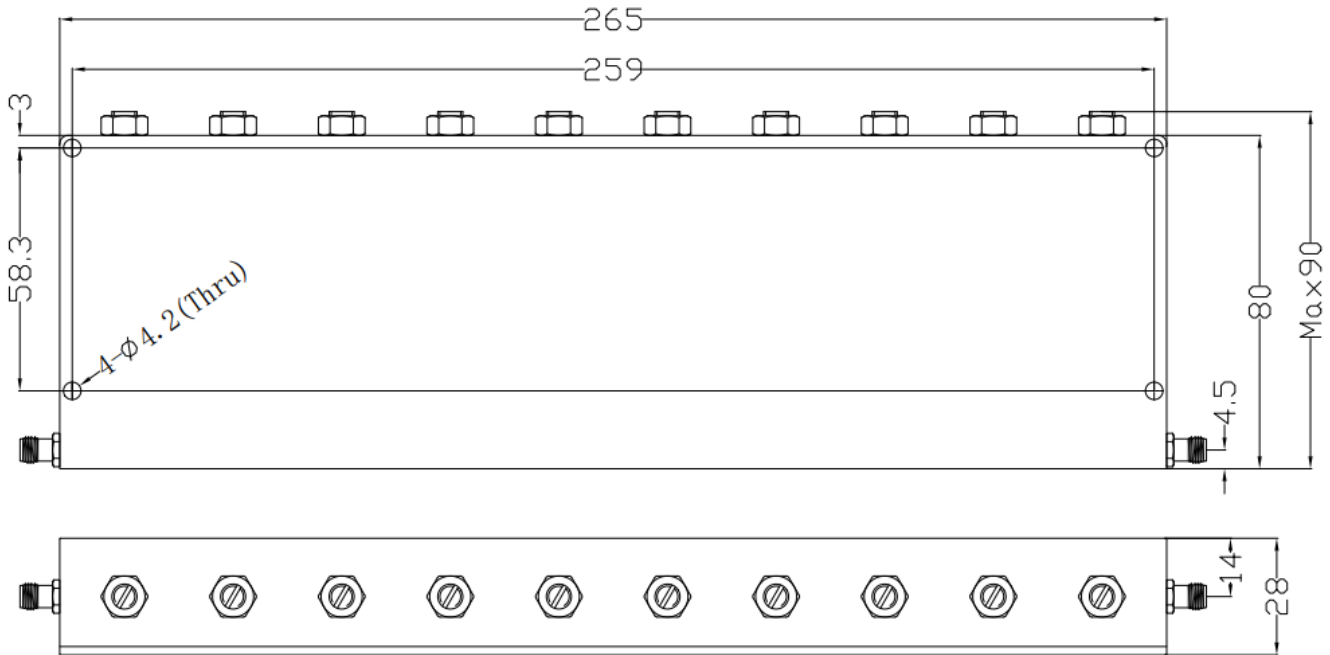


Type Performance:





CAD Drawing



Dimensions Unit: mm, Dimensions Tolerance: ± 0.5 mm