ZOMWAVE
RF & Microwave Connection Solution

Cavity Band Rejection Filter with SMA Female Connectors Operating From 3300 MHz to 3800 MHz, Up to 10W CW

Cavity Band Rejection Filte Technical Data Sheet **PN: BSF-MAJMAJ-3300-3800-01 REV-A0**

Feature

- Stop Band Frequency: 3300～3800MHz
- Pass Band Frequency:DC～3180MHz & 3920～8000MHz
- Power Handling: Up to 10W CW
- SMA-Female Connectors
- Stop Band Rejection: ≥45 dB
- Low Insertion Loss: ≤2.5 dB typical in passband
- 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-3300-3800-01 is a high-performance cavity band rejection filter designed to provide deep and selective suppression of signals within the 3300 to 3800 MHz frequency band. It features a wide passband covering DC to 3180 MHz and 3920 to 8000 MHz 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 ≥45 dB, low passband loss of ≤2.5 dB, 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	3300		3800	MHz
Stop Band Rejection	45			dB
Pass Band Frequency (Low)	DC		3180	MHz
Pass Band Frequency (High)	3920		8000	MHz
Pass Band Insertion Loss			2.5	dB
Pass Band VSWR		1.7:1		
Impedance		50		Ohms
Input Power (CW)			10	Watts

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

Mechanical Specifications

Size

Length	5.5 in [141 mm]
Width	1.57 in [40 mm]
Height	0.63 in [16 mm]

Connectors

Connector 1	SMA Female
Connector 2	SMA Female

Environmental Specifications

Temperature

Operating Temperature:	-55℃ ~ +85℃

Compliance Certifications

RoHS Compliant REACH Compliant

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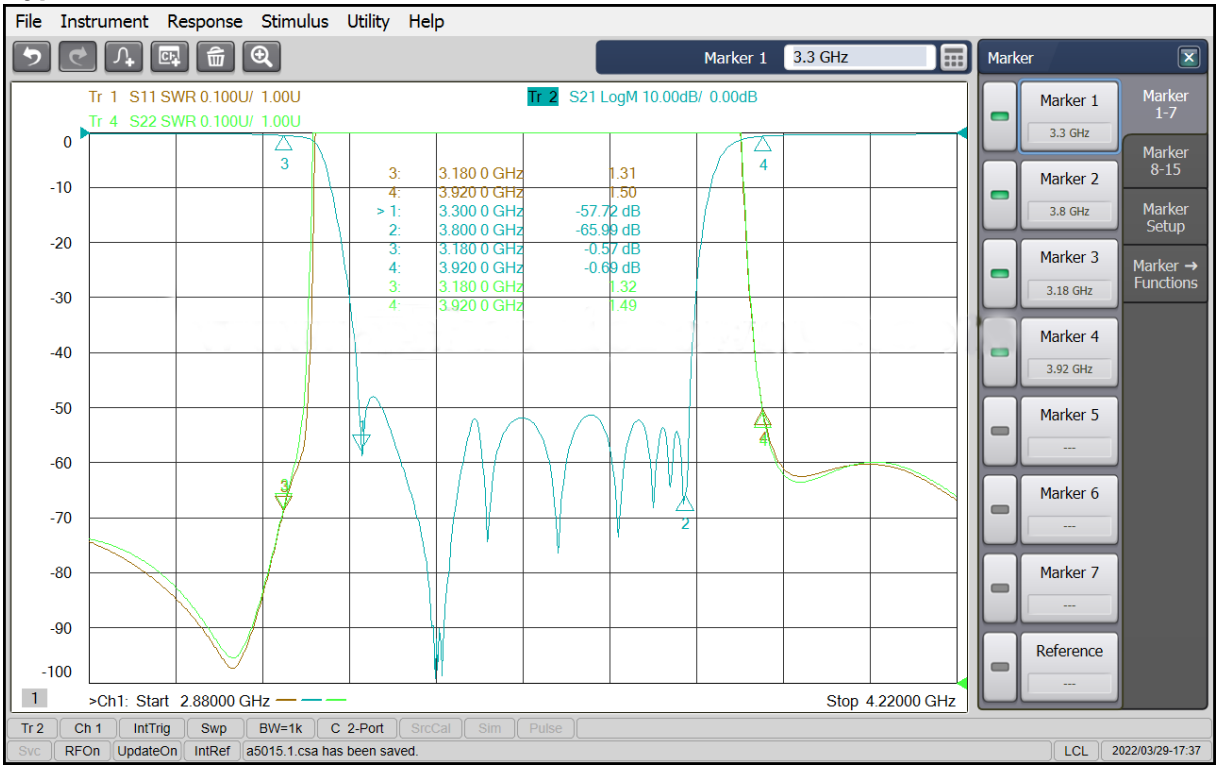
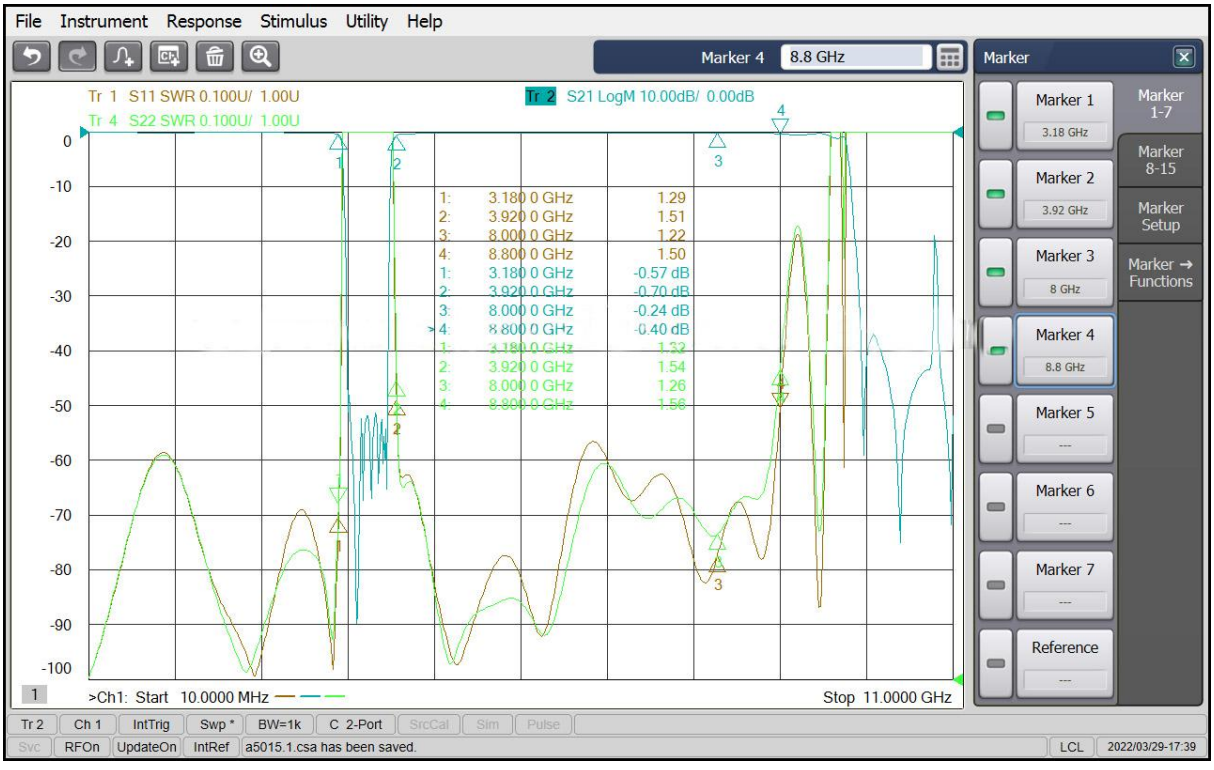
Typical Performance data





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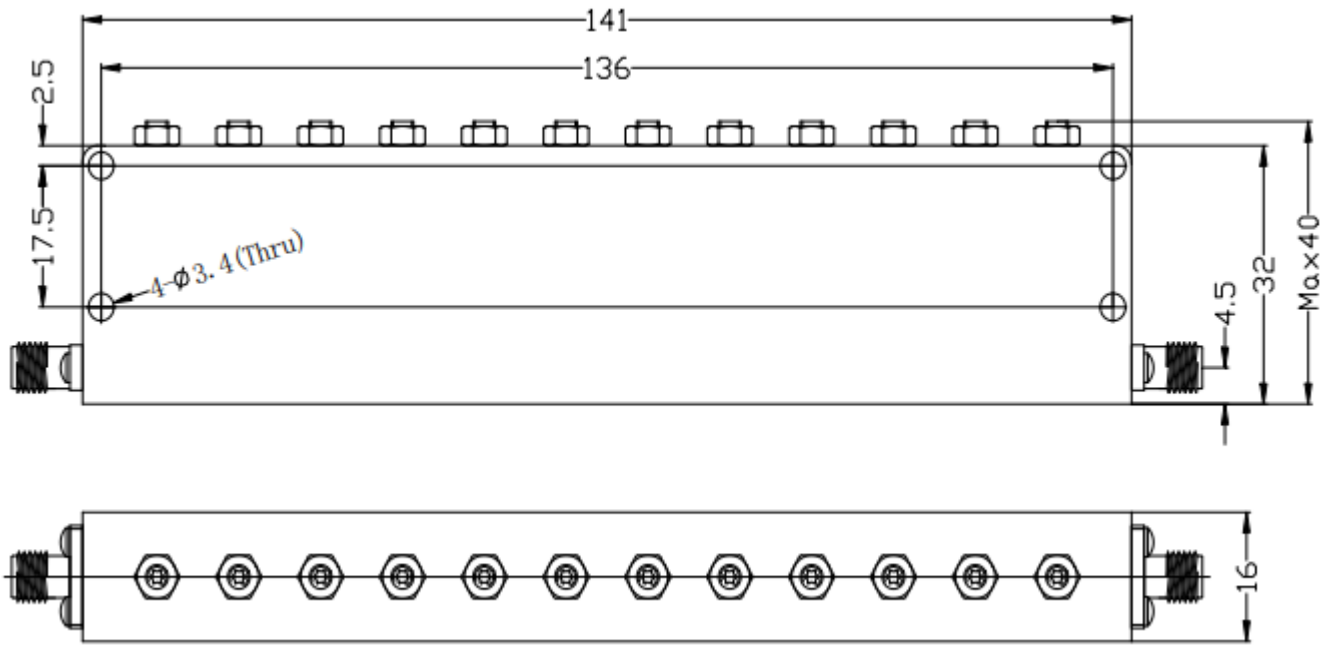

Dimensions Unit: mm, Dimensions Tolerance: ±0.5mm