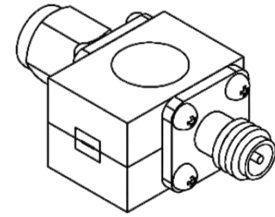


8 to 12GHz Coaxial Isolator

Industry Applications

- Radar Systems
- RF Test & Measurement
- Satellite Communication Equipment
- Microwave Radio Devices
- Full Customization Available (Logo,Part Number, Band,RF Power,Cavity Size,Connectors)



Product Description

A passive RF component enabling unidirectional signal flow within 8–12GHz. It provides high isolation to absorb reflected signals and protect sensitive circuits from reverse power damage, unlike circulators, it terminates reflected power instead of rerouting signals to another port.

- High-performance coaxial isolator covering 8–12GHz frequency band, adopting microwave non-reciprocal principle for unidirectional signal transmission.
- Effectively suppress reflected signals, protect RF power amplifiers and transceiver modules from reverse power damage.
- Optimized internal electromagnetic design achieves low insertion loss, low VSWR and high isolation for stable signal transmission.
- Compact coaxial structure, easy installation and integration into radar, test measurement and wireless communication systems.

RF Characteristics

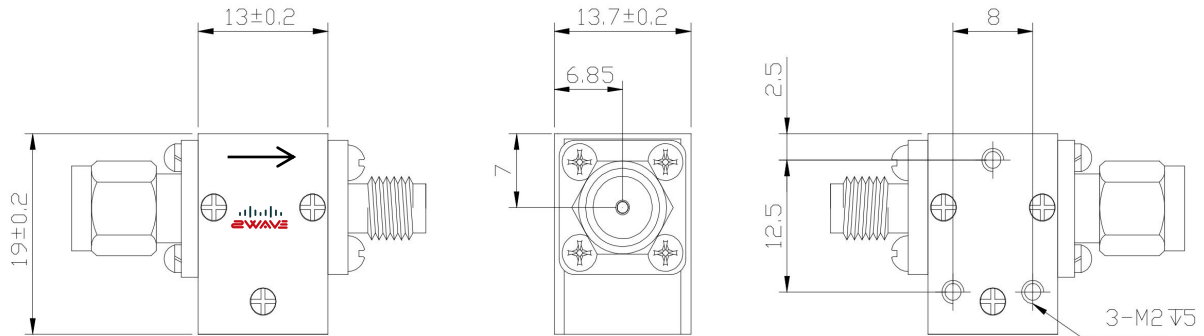
Name	Unit	Performance Data
Frequency Range	GHz	8.0-12.0
Insertion Loss	dB Max	0.5
Isolation	dB Min	18
VSWR	Max	1.3
Operation Power	W	30
Reverse Power	W	10
Connector Type	/	P1-SMA Male ;P2-SMA Female （Customization Available）
Direction	/	P1 to P2 Clockwie
Operating Temperature Range	℃	-30℃-+70℃
Finish	/	Original Color

Quality Standards

- Standardized Production: Manufactured strictly in accordance with international RF microwave component specifications and industry unified quality standards.
- Full-item Parameter Testing: All core indicators including frequency band, VSWR, interface size and electrical performance are strictly calibrated and tested before delivery.
- Qualified Surface Treatment Process: Internal chromate conversion and external anti-corrosion paint processes meet industrial standards, guaranteeing long-term stable electrical performance and structural durability.
- Strict Environmental Reliability Test: Finished products pass high and low temperature cycling tests to verify extreme environment adaptability.
- Batch Quality Stability: 100% full-performance inspection for all finished products, meeting commercial, industrial and military-grade equipment matching requirements
- We provide a 12-month warranty for all products.

Mechanical Drawing

Unit: mm/ inch, General part tolerance is $\pm 2\%$ / unless otherwise stated.



S-Parameter

E5071C Network Analyzer

1 Active Ch/Trace 2 Response 3 Stimulus 4 Mkr/Analysis 5 Instr State

Resize

