



High Power Circulator with 18 dB Isolation from 2 GHz to 4 GHz, 100 Watts and SMA Female

Circulators Technical Data Sheet

RC-AMAJJJ-0200-0400-01

Features

- Forward/Reverse Power 100 Watts
- Frequency Range of 2 to 4 GHz
- Female SMA Connectors
- LOW VSWR

Applications

- Radar Systems
- Military
- Wireless Radio Systems
- Telecom Infrastructure
- Communication Systems
- R&D Labs
- Microwave Radio Systems

Description

The RC-AMAJJJ-0200-0400-01 is a high power circulator offering a forward and reverse power rating of 100 Watts at an operational frequency band of 2 to 4 GHz. This coaxial part uses SMA female connectors on all ports and has a minimum of 18 dB of isolation.

ZOMWAVE offers a wide variety of circulators to fit your needs. These unique devices enable two signals to use one channel. The classic use of this three port device is for the line/coax between an antenna and a transceiver, allowing the receive signal to come from the antenna (port 1) to the receiver (port 2) while the transmit signal goes from the transmitter (port 3) to the antenna (port 1). An isolator can be created by terminating one port into a matched load. These components can be used in radar transmitting and receiving, radar, amplifier systems and anything that requires isolation from a signal reflection and the ability to send signals in opposite directions down a single channel. These circulators feature excellent insertion loss, high isolation and reliability.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	2		4	GHz
Impedance		50		Ohms
Insertion Loss			0.5	dB
Isolation	18			dB
VSWR			1.30:1	
Forward Power, CW			100	Watts
Reverse Power, CW			100	Watts

Electrical Specification Notes:

Average Power and Actuating Current values at 25°C.

Mechanical Specifications

Size

Length	1.25 in [32 mm]
Width	1.33 in [34 mm]
Height	0.82 in [21 mm]
Weight	0.23 lbs [105 g]

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Configuration

Design

Single Junction

Connector 1

SMA Female

Connector 2

SMA Female

Connector 3

SMA Female

Environmental Specifications

Temperature

Operating Range

0 to +60 deg C

Notes:

Values at 25° C, sea level.

Compliance Certifications

RoHS Compliant

REACH Compliant

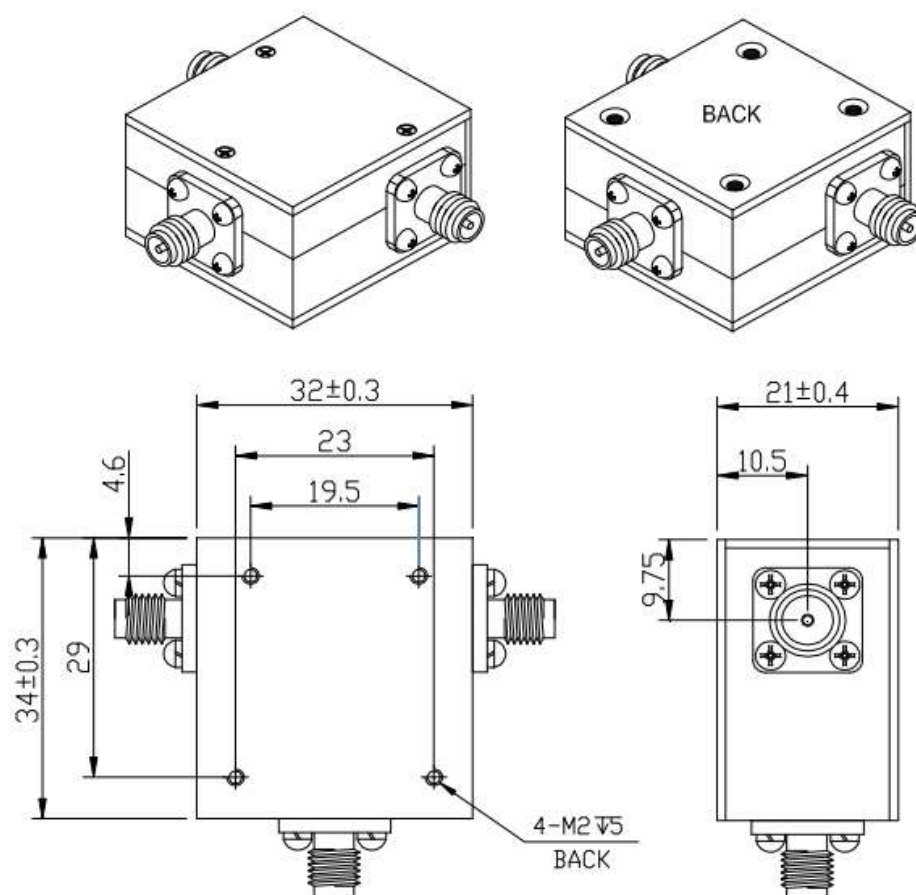
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CAD Drawing



1. Dimensions are in mm [inches]
2. Tolerances: Outline drawing ± 0.2 [0.008] Hole ± 0.2 [0.008]