

J0020H Double Balanced Mixer

0.01 to 1.5 GHz

Technical Characteristics



Product Features
Multi-octave bandwidth
Broad frequency - input and output
Wide DC to IF frequency response
Low conversion loss
High port-to-port isolation

Maximum Ratings	
Storage Temperature	-65 to +100°C
Operating Temperature Peak	-54 to +100°C
Peak Input Power For Any Single Port	+23dBm Peak
Peak Input Power For Any Port	+26dBm peak
Peak Input Current @ +25° C	100mA

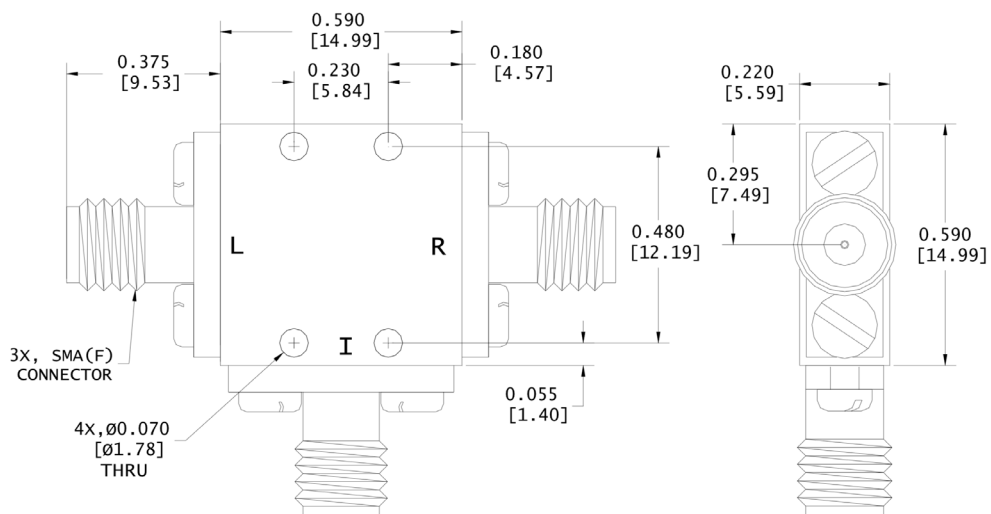
Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
Conversion Loss						
RF Input	0.01 to 1.5		7.0	8.5	dB	IF = 100 MHz
LO Input	0.01 to 1.5 GHz		8.0	9.0	dB	IF = 600 MHz
IF Output	DC to 0.6					
Conversion Flatness						
Isolation						
LO-RF	0.01 to 1.5	30.0	40.0		dB	
LO-IF	0.01 to 1.5	26.0	35.0		dB	
RF-IF	DC to 0.6	12.0	20.0		dB	
VSWR						
1dB Comp.Point			10.0		dBm	
LO Drive			16.0		dBm	
Input TOIP			19.0		dBm	

NOTES:

1. Measured in a 50 ohm system with nominal LO drive and downconverter application only, unless otherwise specified. The I-port frequency range extends to DC for phase detection, pulse modulation, or attenuator applications. I-port VSWR degrades from a 50 Ω system at LO-IF frequencies.

2. Typical values are measured at +25°C and are not guaranteed.

Package outline Z

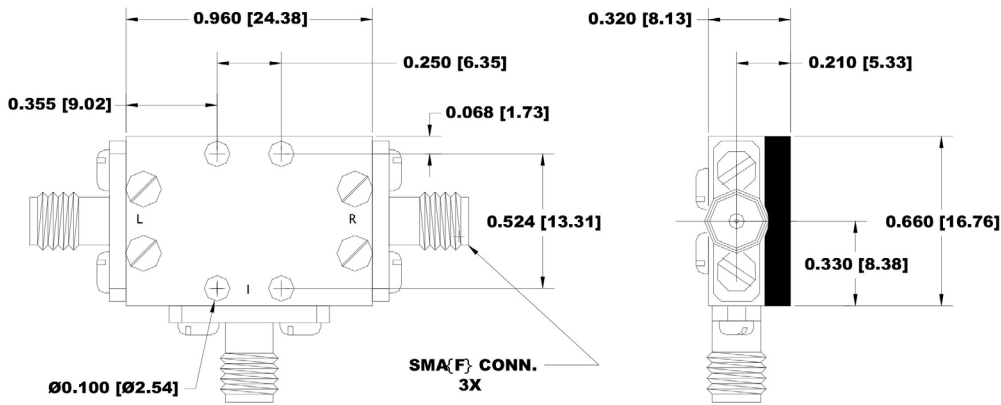


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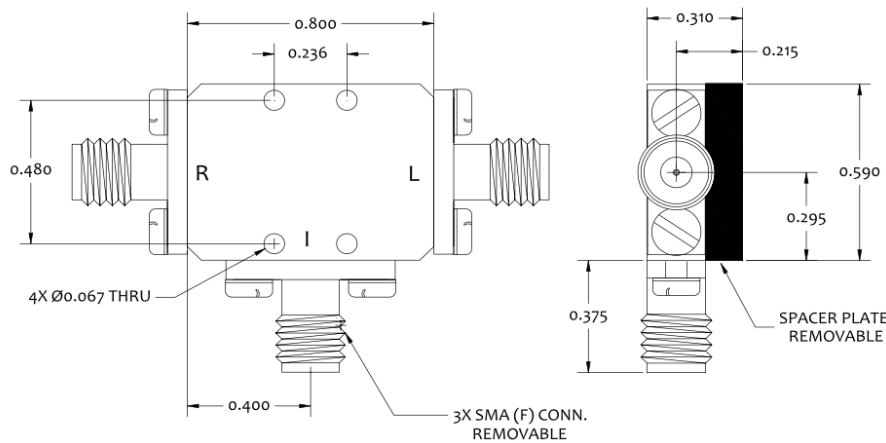
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Outline Drawings 1 of 2

Coaxial Package outline 'B'



Coaxial Package outline 'L'



Coaxial Package outline 'C'

