J16026 Double Balanced Mixer

16.0 to 26.0 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

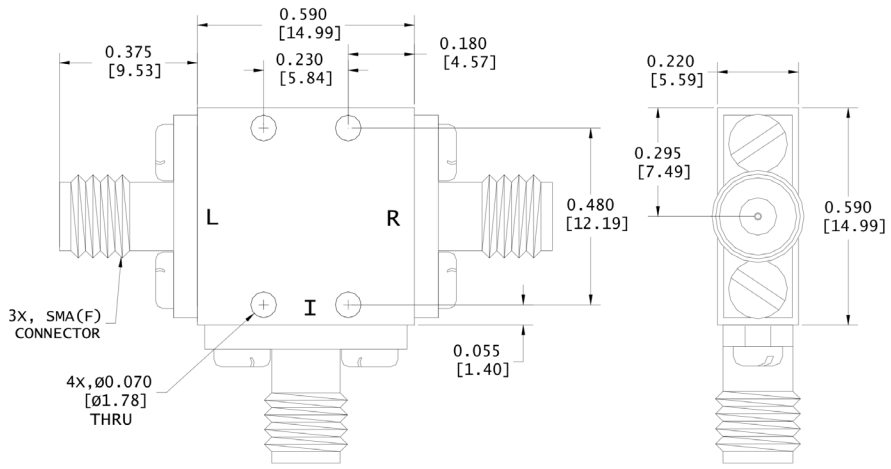
Maximum Ratings	
Storage Temperature	-65 to +150°C
Operating Temperature Peak	-55 to +125°C
Peak Input Power For Any Single Port	+23dBm Peak
Peak Input Power For Any Port	+26dBm peak
Peak Input Current @ +25° C	100mA

Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
Conversion Loss						
RF Input	16.0 to 26.0					
LO Input	16.0 to 26.0		7.5	9.5	dB	IF = 1000 MHz
IF Output	DC to 4.0		8.5	10.5	dB	IF = 4000 MHz
Conversion Flatness						
Isolation						
LO-RF	16.0 to 26.0	30.0	40.0		dB	LO = 16.0 to 24.0
LO-IF	16.0 to 26.0	20.0	28.0		dB	LO = 16.0 to 21.0
RF-IF			35.0		dB	
VSWR						
1dB Comp.Point J16026L J16026M			0.0 4.0		dBm dBm	
LO Drive J16026L J16026M		7.0 9.0	9.0 10.0	10.0 13.0	dBm dBm	
Input TOIP J16026L J16026M			11.0 14.0		dBm 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 +25ºC and are not guaranteed.

Package outline Z



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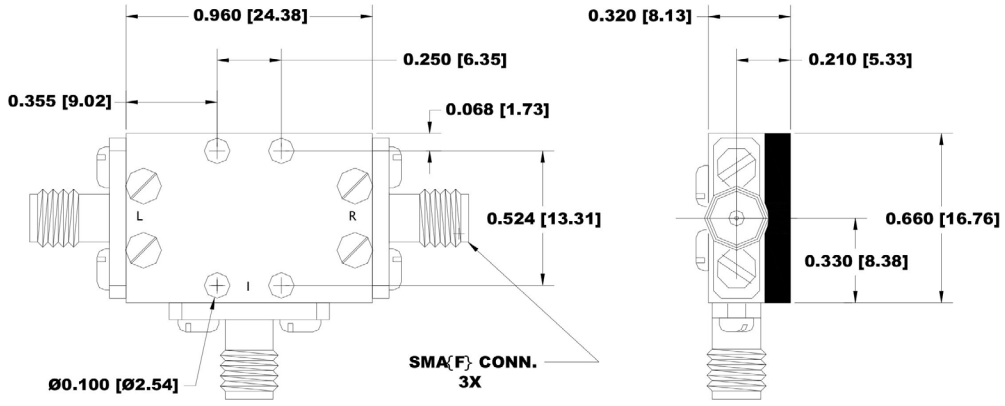
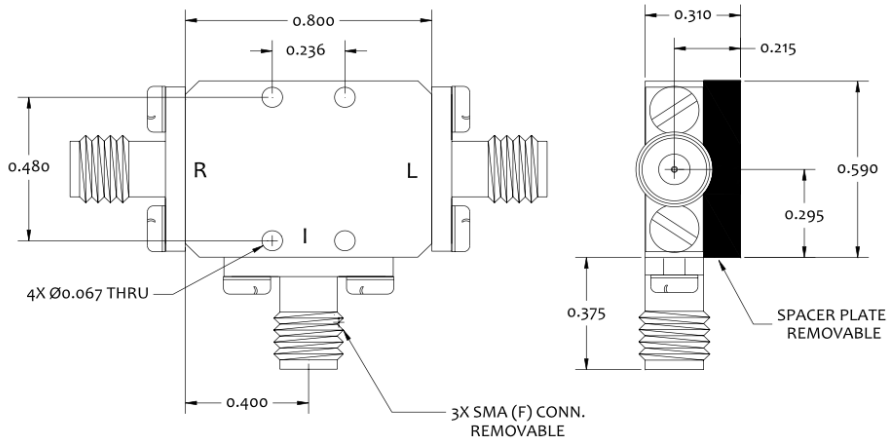
Outline Drawings 1 of 2

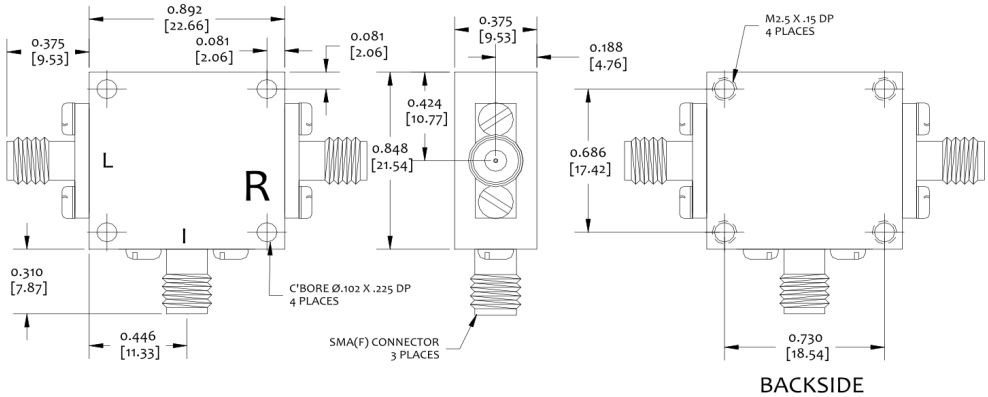
Coaxial Package outline 'B'



Coaxial Package outline 'L'



Coaxial Package outline 'C'



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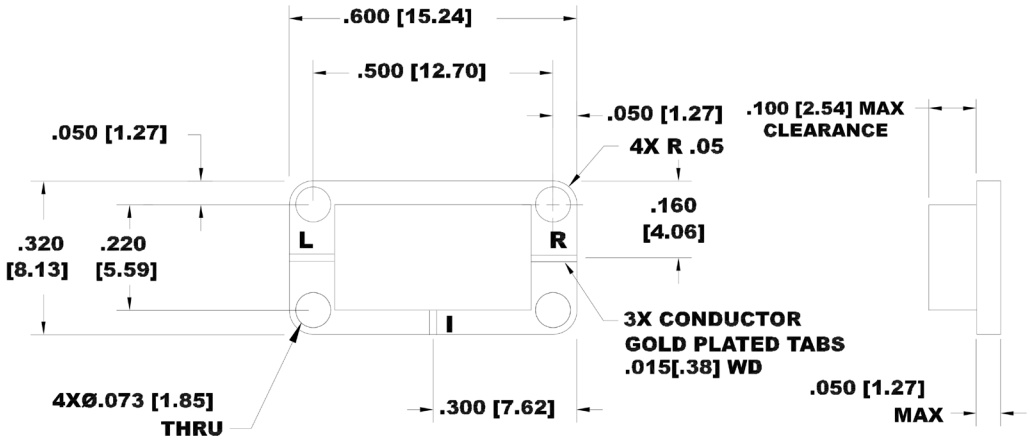
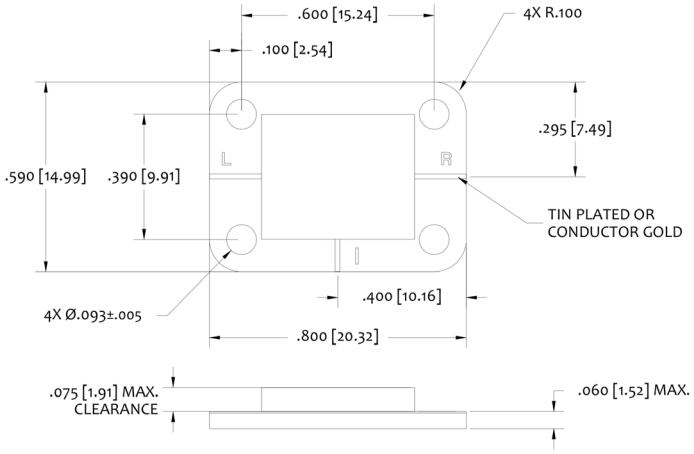
Outline Drawings 2 of 2

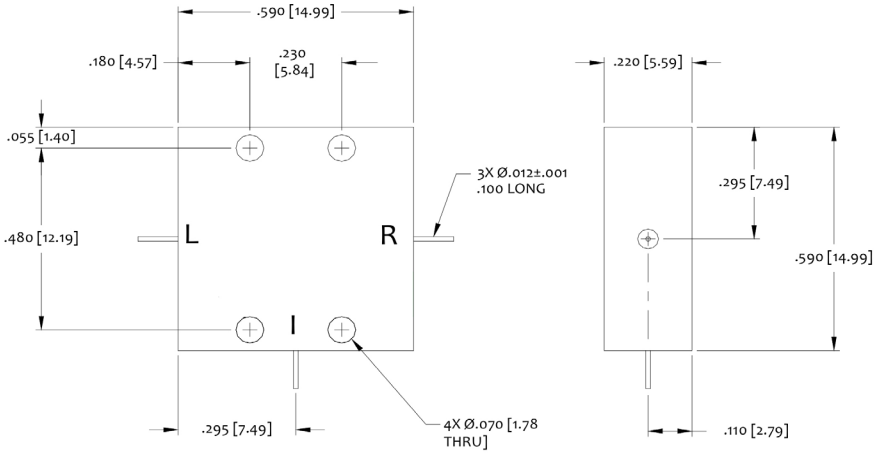
Drop in Package outline 'E1'



Drop in Package outline 'F1'



Drop in Package outline 'ZX'



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