

J0520 Double Balanced Mixer

0.5 to 2.0 GHz

Technical Characteristics



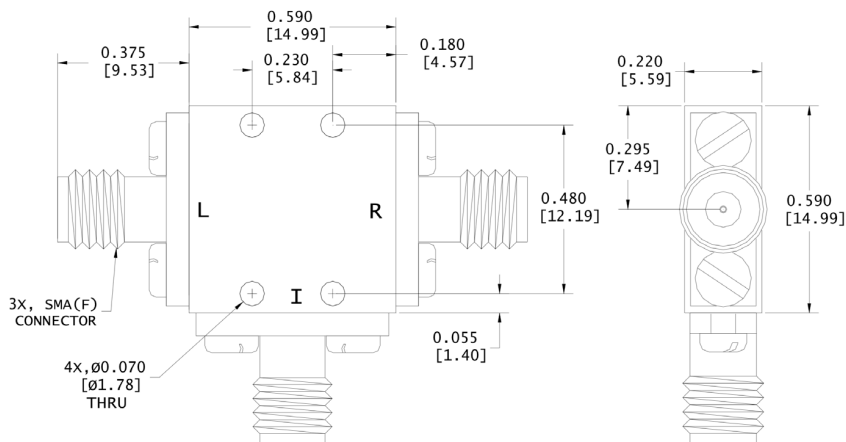
Product Features				Maximum Ratings		
Multi-octave bandwidth				Storage Temperature	-65 to +150°C	
Broad frequency - input and output				Operating Temperature Peak	-54 to +100°C	
Wide DC to IF frequency response				Peak Input Power For Any Single Port	+23dBm Peak	
Low conversion loss				Peak Input Power For Any Port	+26dBm peak	
High port-to-port isolation				Peak Input Current @ +25° C	100mA	
Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
Conversion Loss						
RF Input	0.5 to 2.0		6.5	8.5	dB	IF = 100 MHz
LO Input	0.5 to 2.0		8.5	9.5	dB	IF = 500 MHz
IF Output	DC to 0.5					
Conversion Flatness						
Isolation						
LO-RF	0.5 to 2.0	32.0	40.0		dB	
LO-IF	0.5 to 2.0	20.0	24.0		dB	
RF-IF						
VSWR						
1dB Comp.Point						
J0520L			1.0		dBm	
J0520M			4.0		dBm	
J0520H			10.0		dBm	
J0520N			7.0		dBm	
LO Drive						
J0520L		10.0	13.0		dBm	
J0520M		10.0	13.0		dBm	
J0520H		10.0	13.0		dBm	
J0520N					dBm	
Input TOIP						
J0520L			11.0		dBm	
J0520M			14.0		dBm	
J0520H			19.0		dBm	
J0520N			14.0		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



Product Export Classification

ECCN: EAR 99 (unless otherwise specified)
HTS: 8541.10.0060



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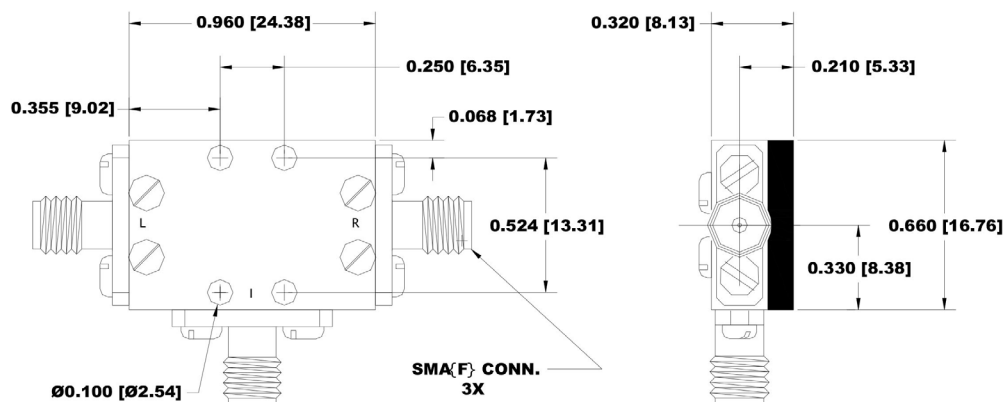
sales@eclipsemdi.com

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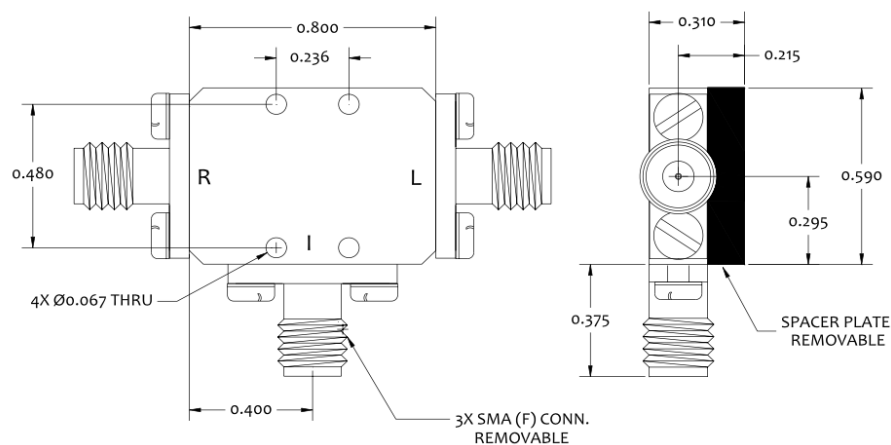
0.5 to 2.0

Outline Drawings 1 of 2

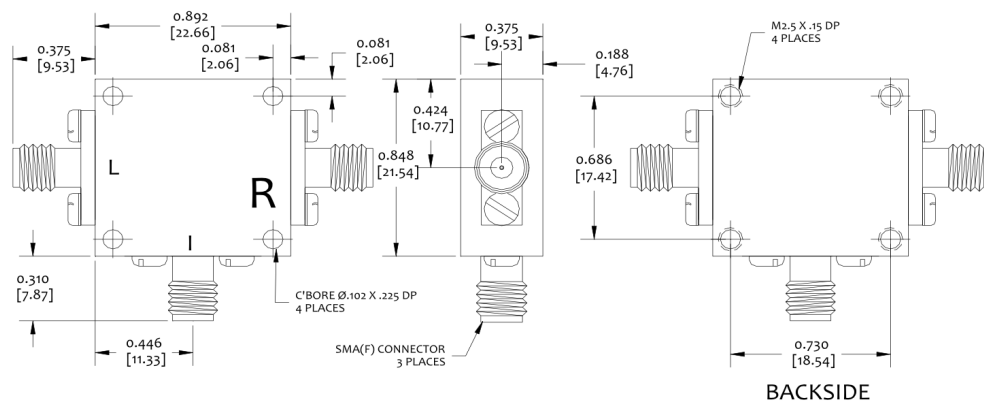
Coaxial Package outline 'B'



Coaxial Package outline 'L'



Coaxial Package outline 'C'

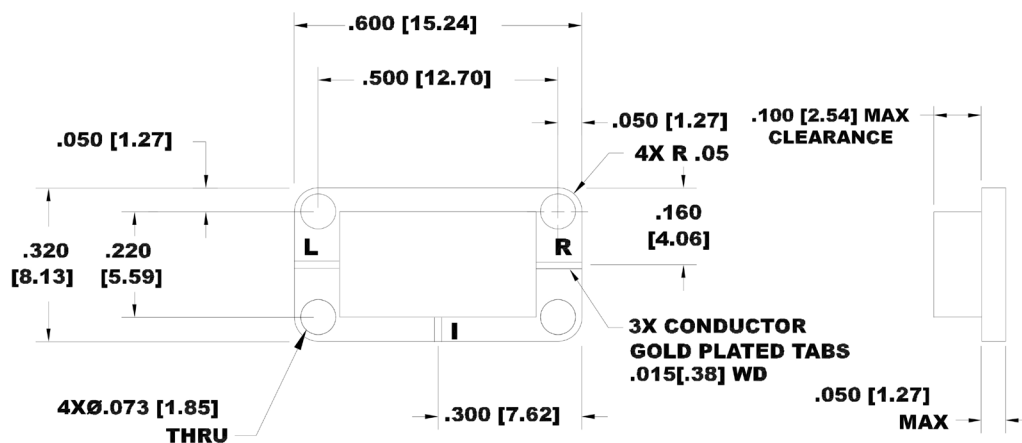


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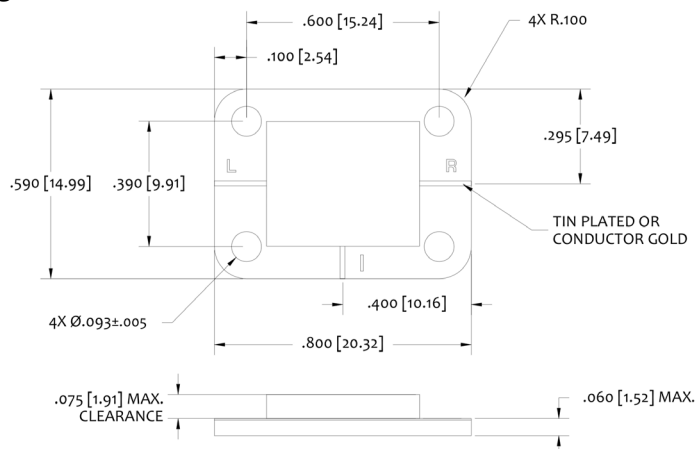
0.5 to 2.0

Outline Drawings 2 of 2

Drop in Package outline 'E1'



Drop in Package outline 'F1'



Drop in Package outline 'ZX'

