A1010ML Triple Balanced Mixer

1.0 to 10.0 GHz

Technical Characteristics

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

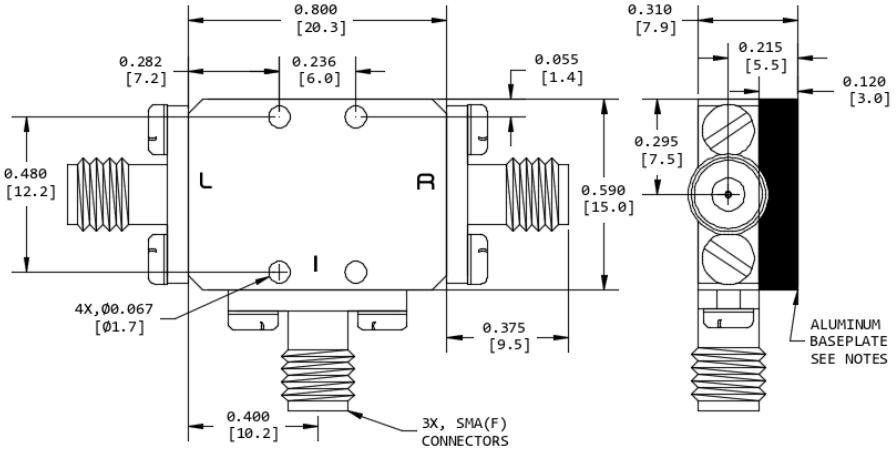
Maximum Ratings	
Storage Temperature	-65 to +150°C
Operating Temperature Peak	-55 to +125°C
Peak Input Power For Any Port	+24dBm Peak
Specifications @	25°C

Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
Conversion Loss						
RF Input	1.0 to 2.0 2.0 to 10.0 2.0 to 10.0 2.0 to 10.0		9.5 8 7 7.5	11.5 9.5 8.5 9	dB dB dB dB	IF= 0.5 to 4.0 GHz IF= 0.5 GHz IF= 1.0 GHz IF= 4.0 GHz
LO Input	1.0 to 10.0					
IF Output	0.5 to 4.0					
Isolation						
LO-RF	1.0 to 3.0 GHz 3.0 to 10.0 GHz	16 18	20 25		dB	
LO-IF	1.0 to 10.0 GHz	18	25		dB	
RF-IF						
1dB Comp.Point			+4		dBm	
LO Drive			+11		dBm	
3rd Order Intercept Point			+14		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-ohm system at low IF frequencies.

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

Coax Package
Outline L



Product Export Classification
ECCN: EAR 99 (unless otherwise specified)
HTS: 8541.10.0060

DISCLAIMER: Subject to change without notice.

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