J2080 Double Balanced Mixer

2.0 to 8.0 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

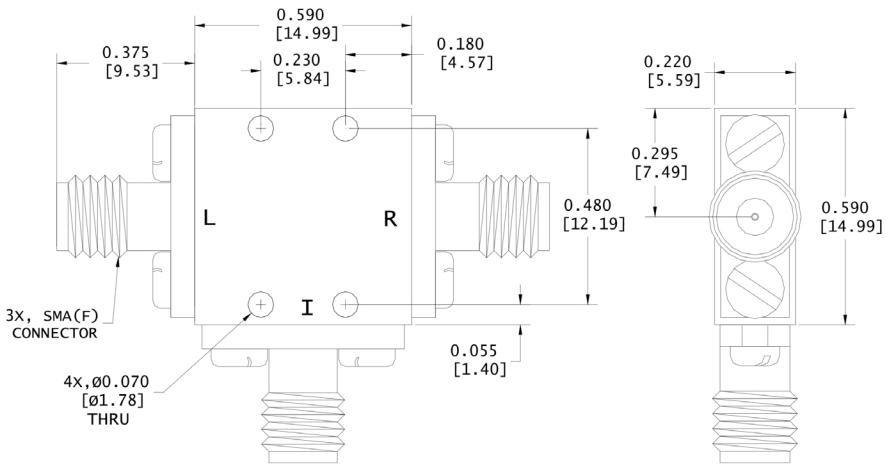
Maximum Ratings	
Storage Temperature	-65 to +150°C
Operating Temperature Peak	-55 to +125°C
Peak Input Power For Any Single Port	+23dBm Peak
Peak Input Power For Any Port	+26dBm peak
Peak Input Current @ +25° C	100mA

Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
Conversion Loss						
RF Input	2.0 to 8.0		5.5	6.5	dB	IF = 100 MHz
LO Input	2.0 to 8.0		6.0	7.0	dB	IF = 1000 MHz
IF Output	DC to 2.0		6.5	8.5	dB	IF = 2000 MHz
Conversion Flatness						
Isolation						
LO-RF	2.0 to 8.0	25.0	35.0		dB	
LO-IF	2.0 to 8.0	18.0	25.0		dB	LO = 2.0 to 5.5 GHz
RF-IF			20.0		dB	
VSWR						
1dB Comp.Point J2080L J2080M J2080N			 1.0 4.0 7.0		 dBm dBm dBm dBm	
LO Drive J2080L J2080M J2080N		 7.0 9.0	 9.0 10.0 13.0	 13.0 13.0	 dBm dBm dBm	
Input TOIP J2080L J2080M J2080N			 11.0 14.0 17.0		 dBm 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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