

J2080 Double Balanced Mixer

2.0 to 8.0 GHz

Technical Characteristics



Product Features				Maximum Ratings		
Multi-octave bandwidth				Storage Temperature	-65 to +150°C	
Broad frequency - input and output				Operating Temperature Peak	-55 to +125°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	

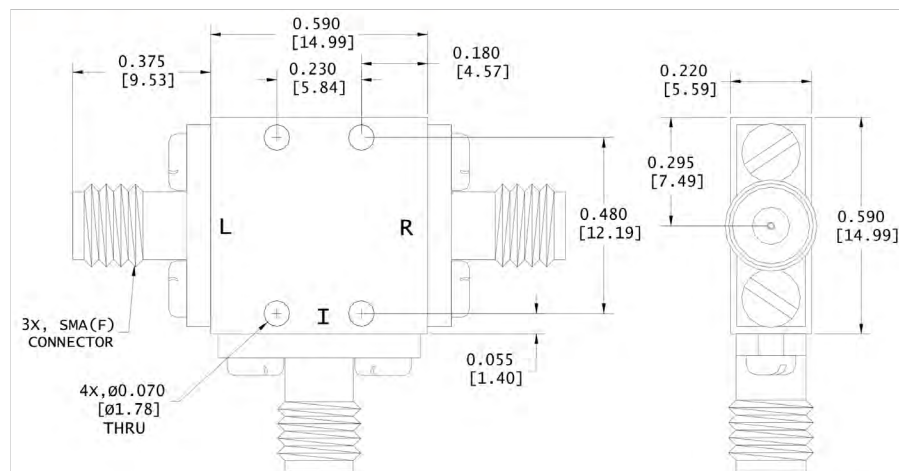
Parameters	Freq. (GHz)	Minimum	Typical	Maximum	Units	Conditions
Conversion Loss						
RF Input	2.0 to 8.0		5.5	6.5	dB	IF = 100 MHz
LO Input	2.0 to 8.0		6.0	7.0	dB	IF = 1000 MHz
IF Output	DC to 2.0		6.5	8.5	dB	IF = 2000 MHz
Conversion Flatness						
Isolation						
LO-RF	2.0 to 8.0	25.0	35.0		dB	LO =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

