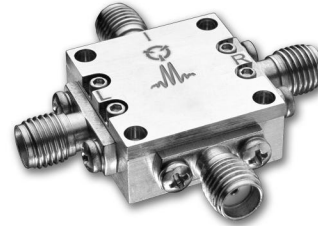


QUADRATURE-IF DOUBLE-BALANCED MIXERS

IQ-0618



Features

- ¾ LO/RF 6.0 to 18.0 GHz
- ¾ IF DC to 500 MHz
- ¾ 7.5 dB Typical Conversion Loss
- ¾ 35 dB Typical LO to RF Isolation
- ¾ 3 Degree Typical Quadrature Phase Deviation
- ¾ .4 dB Typical Amplitude Deviation
- ¾ Open Carrier or Connectorized

Electrical Specifications

Parameter	LO	RF	IF	Min	Typ	Max	Diode Option
	(GHz)	(GHz)	(MHz)				LO drive level (dBm)
Conversion Loss (dB)	6.0-18.0	6.0-18.0	DC-500		7.5	9.0	
Image Rejection (dB)	8.0-18.0	8.0-18.0	DC-500	16	23		
	6.0-18.0	6.0-18.0	DC-500	14	23		
I/Q Amplitude Deviation (dB)	6.0-18.0	6.0-18.0	DC-500		0.4		
I/Q Quadrature Phase Deviation (degrees)	6.0-18.0	6.0-18.0	DC-500		3		
Isolation (dB)				25			
	LO-RF	8.0-18.0	8.0-18.0		35		
	LO-IF	8.0-18.0	8.0-18.0		20		
RF-IF	8.0-18.0	8.0-18.0			20		
Input 1 dB Compression (dBm)	6.0-18.0	6.0-18.0			+4		L (+10 to +13)
					+6		M (+13 to +16)
Input Two-Tone Third Order Intercept Point (dBm)	6.0-18.0	6.0-18.0			+14		L (+10 to +13)
					+16		M (+13 to +16)

Part Number Options

<i>Please specify diode level and package style by adding to model number.</i>	
Package Style(s) ¹	Example
XT, XP	IQ-0618 L XT

¹Higher LO drive levels are available.

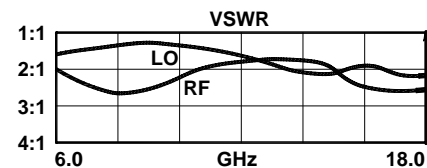
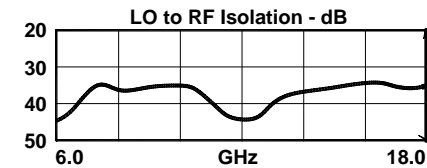
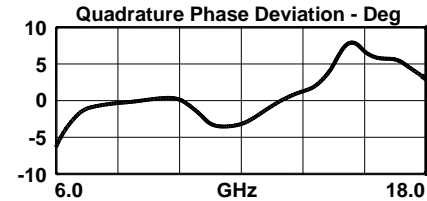
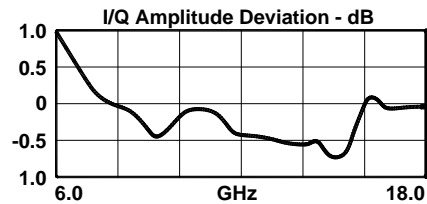
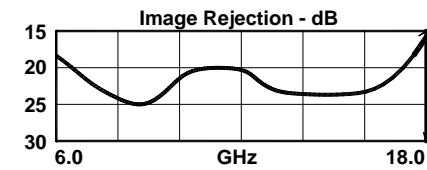
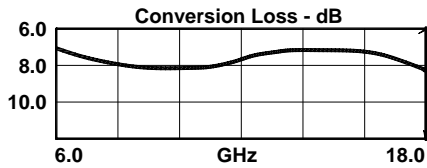
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QUADRATURE-IF
DOUBLE-BALANCED MIXERS
Page 2

IQ-0618

LO/RF 6.0 to 18.0 GHz
IF DC to 500 MHz

Specifications guaranteed
from -55 to +100°C,
measured in a 50-Ohm System



For additional information, please visit the following sections on the Marki Microwave website.

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