

SINGLE-SIDEBAND DOUBLE-BALANCED MIXERS

SSB-0618



Features

- LO/RF 6.0 to 18.0 GHz
- IF (input) 4 to 210 MHz
- 7.5 dB Typical Conversion Loss
- 35 dB Typical LO to RF Isolation
- 23 dB Typical Sideband Suppression
- Connectorized
- Ultra-Broadband IF

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

Parameter	LO (GHz)	RF (GHz)	IF (MHz)	Min	Тур	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	6.0-18.0	6.0-18.0	4-210		7.5	9.0	
Sideband Suppression (dB)	8.0-18.0	8.0-18.0	4-210	16	23		
	6.0-18.0	6.0-18.0	4-210	14	23		
Isolation (dB)							
LO-RF	8.0-18.0	8.0-18.0		25	35		
LO-IF	8.0-18.0	8.0-18.0			25		
RF-IF	8.0-18.0	8.0-18.0			25		
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	6.0-18.0	6.0-18.0			+14		L (+10 to +13)
Intercept Point (dBm)					+16		M (+13 to +16)

Part Number Options

Please specify diode level and package style by adding to model number.				
Package Style(s) ¹	Example			
<u>XW</u> (-1 or -2)	SSB-0618 <u>L</u> <u>XW-1</u>			

¹-1 = FR (out) < FL; -2 = FR (out) > FL. Higher LO drive levels are available.

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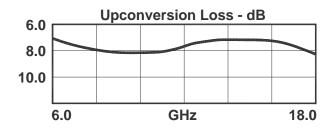
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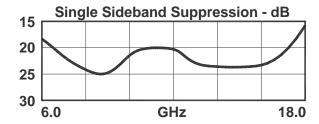
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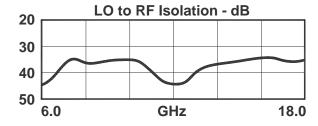
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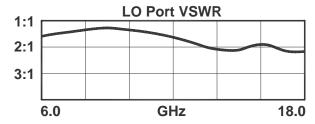
LO/RF 6.0 to 18.0 GHz IF (input) 4 to 210 MHz

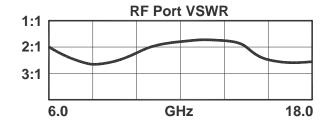
Typical Performance











DATA SHEET NOTES:

- 1. Mixer Conversion Loss Plot IF frequency is 70 MHz.
- 2. Mixer Noise Figure typically measures within 0.5 dB of conversion loss for IF frequencies greater than 5 MHz.
- 3. Conversion Loss typically degrades less than 0.5 dB for LO drives 2 dB below the lowest and 3 dB above highest nominal LO drive levels.
- 4. Conversion Loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
- 5. Maximum input power is +26 dBm at +25°C, derated linearly to +23 dBm at +100°C.
- 6. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.
- 7. Catalog mixer circuits are continually improved. Configuration control requires custom mixer model numbers and specifications.

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