



DOUBLE-BALANCED MIXERS

M9H-3740



Features

- RF 37.0 to 40.0 GHz
- LO 11.5 to 14.0 GHz
- IF DC to 3.5 GHz
- 12.5 dB Typical Conversion Loss
- 3rd Harmonic Mixing
- Available with 2.92 or 2.40 mm Connectors

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

Parameter	LO (GHz)	RF (GHz)	IF (GHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	11.5-14.0 11.5-14.0	37.0-40.0 37.0-40.0	DC-1.0 1.0-3.5		12.5 13.5	14.0 15.0	
Isolation (dB)				30			
3LO-RF	34.5-42.0	34.5-42.0			40		
2LO-IF	23.0-28.0	23.0-28.0			35		
LO-RF	11.5-14.0	11.5-14.0			30		
LO-IF	11.5-14.0	11.5-14.0			28		
RF-IF	37.0-40.0	37.0-40.0			25		
Input 1 dB Compression (dBm)	11.5-14.0	37.0-40.0			-5 -1		L (+10 to +14) I (+14 to +18)
Input Two-Tone Third Order Intercept Point (dBm)	11.5-14.0	37.0-40.0			+5 +9		L (+10 to +14) I (+14 to +18)

Part Number Options

<i>Please specify diode level and package style by adding to model number.</i>	
Package Style(s)	Example
N , NV	M9H-3740 <u>L</u> <u>N</u>

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Page 2

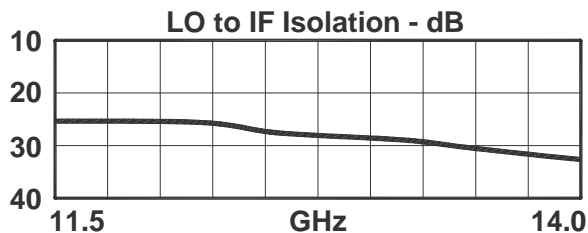
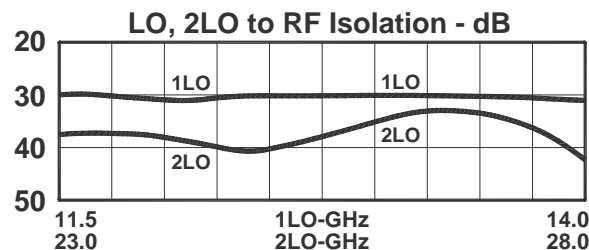
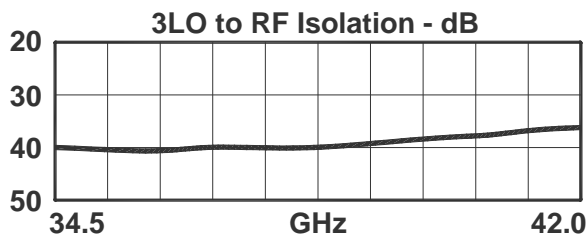
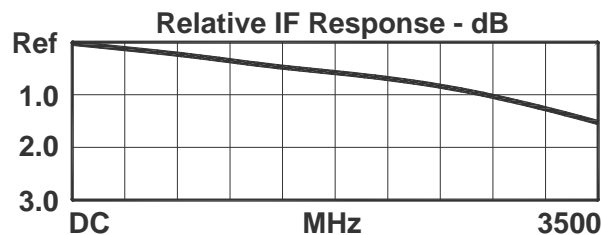
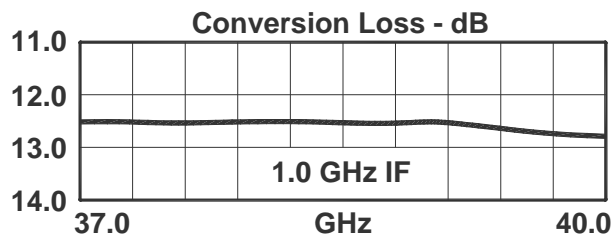
M9H-3740

RF 37.0 to 40.0 GHz

LO 11.5 to 14.0 GHz

IF DC to 3.5 GHz

Typical Performance



DATA SHEET NOTES:

1. Mixer Noise Figure typically measures within +0.5 dB of conversion loss for IF frequencies greater than 5 MHz.
2. 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.
3. Conversion Loss typically degrades less than 0.5 dB at +100°C and improves less than 0.5 dB at -55°C.
4. Maximum input power is +23 dBm at +25°C, derated linearly to +20 dBm at +100°C.
5. Specifications are subject to change without notice. Contact Marki Microwave for the most recent specifications and data sheets.
6. Catalog mixer circuits are continually improved. Configuration control requires custom mixer model numbers and specifications.

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