

## TWO-TONE-TERMINATOR MIXER

**T3-0838**



### Features

- LO/RF: 8 to 38 GHz
- IF: 10 MHz to 10 GHz
- 9.5 dB Typical Conversion Loss
- Ultra-Broadband RF, LO, and IF

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

Parameter	LO (GHz)	RF (GHz)	IF (GHz)	Min	Typ	Max	Diode Option LO drive level (dBm)
Conversion Loss (dB)	8-38	8-38	0.010-10		9.5	15.0	
Isolation (dB)							
LO-RF	8-38				See Plot		
LO-IF	8-38				See Plot		
RF-IF	8-38	8-38			See Plot		
Input 1 dB Compression (dBm)	8-38	8-38			4 dB Below LO Drive Level		L (+13 to +25) I (+17 to +27)
Input Two-Tone Third Order Intercept Point (dBm)	8-38	8-38			+20 to +25 +25		L (+13 to +25) I (+17 to +27)

### Part Number Options

Please specify diode level and package style by adding to model number.	
Package Style(s)	Example
<a href="#">N</a>	T3-0838 <u>L</u> <u>N</u>

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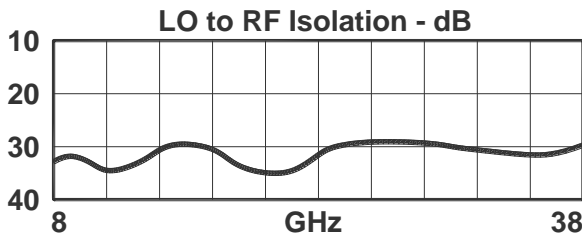
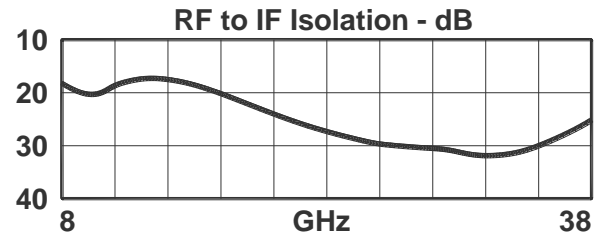
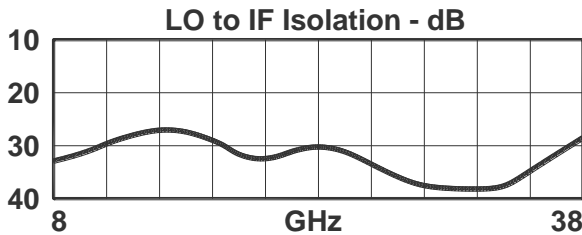
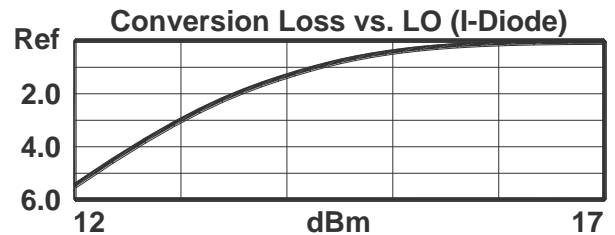
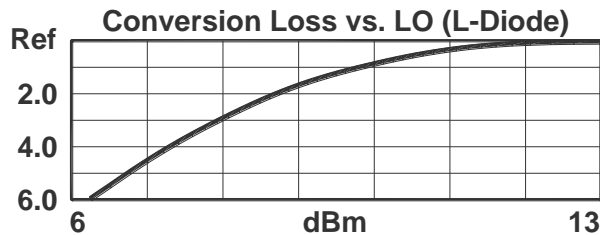
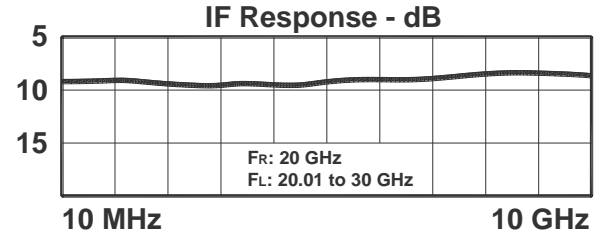
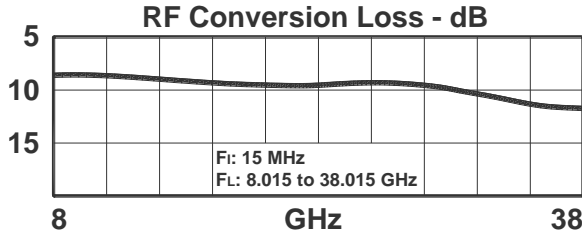
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Page 2

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IF: 10 MHz to 10 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 combined RF/LO input power is +25 dBm for the L-Diode option and +27 dBm for the I-Diode option.
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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