

TRIPLE-BALANCED MIXER

SURFACE MOUNT MODEL: STM-3500

WIDE BANDWIDTH

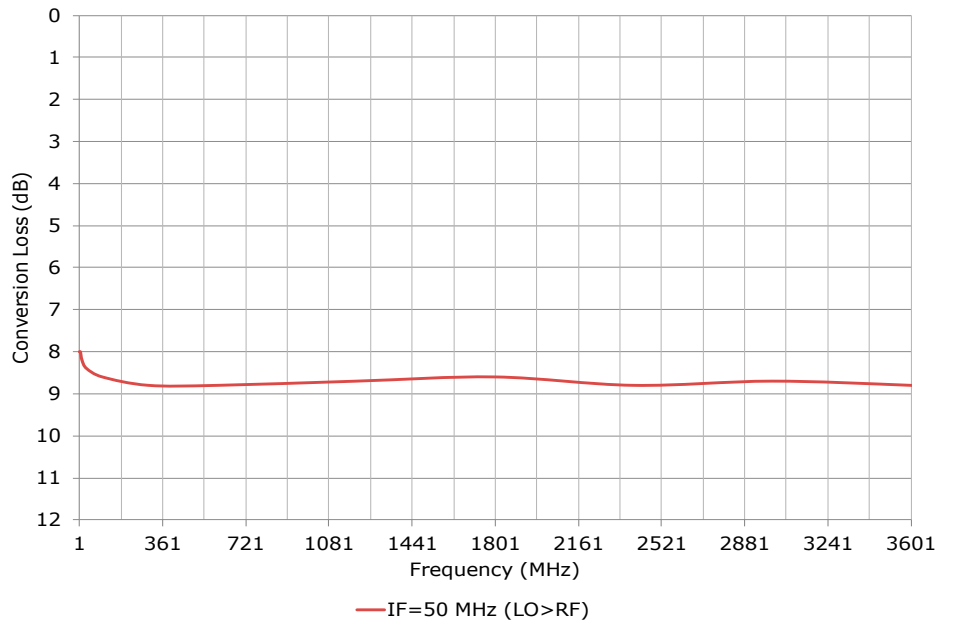
1-3500 MHz

FEATURES:

- ▶ High Performance
- ▶ High Interport Isolation
- ▶ Broad Bandwidth IF

APPLICATIONS:

- ▶ Narrow Band & Broadband Up/Down Conversion



SPECIFICATIONS

Frequency (MHz)	LO/RF 1 - 3500	IF 1 - 3500	
Conversion Loss (dB)	Freq (MHz)	Typ.	Max.
	1 - 100	7.5	9.0
	100 - 1750	8.5	9.5
	1750 - 3500	9.5	10.5
Isolation (dB)	LO/RF		
	Typ.	Min.	
	42	30	
	LO/IF		
	Typ.	Min.	
	42	30	
RF/IF			
Typ.	Min.		
27	20		
LO Power¹	+15 to +23 dBm (Nom.)		
1 dB Compression Point	+14 dBm (Typ.)		
Input IP³	+22 dBm (Typ.) ¹		
Impedance	50 Ohms (Nom.)		
Operating Temperature Range	-40 to +85 °C		
¹ Typical measurements made with LO at +15 dBm			

Package # 357

RECOMMENDED PCB LAYOUT

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

PORT CONFIGURATION			
RF	LO	IF	GND
8	4	6	All Other

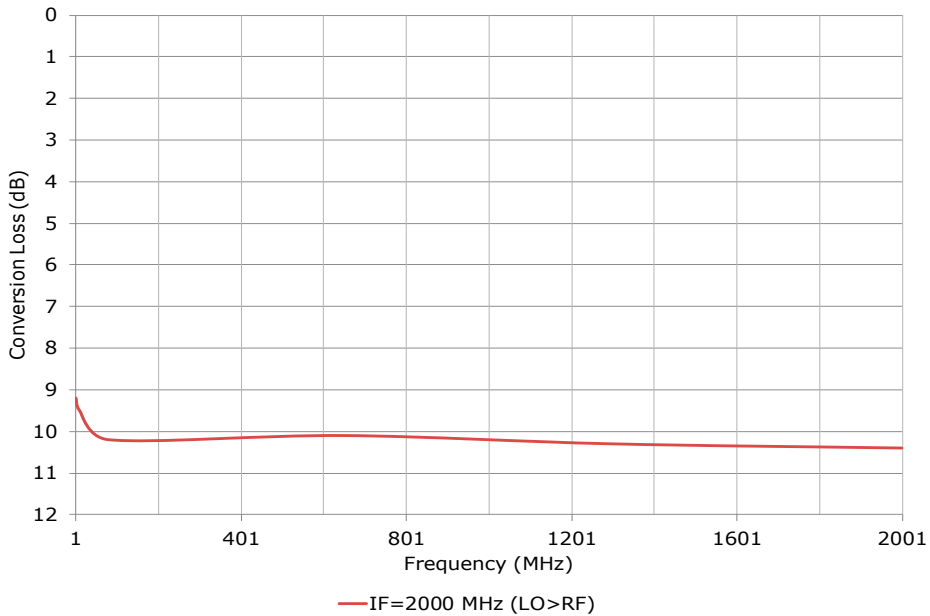
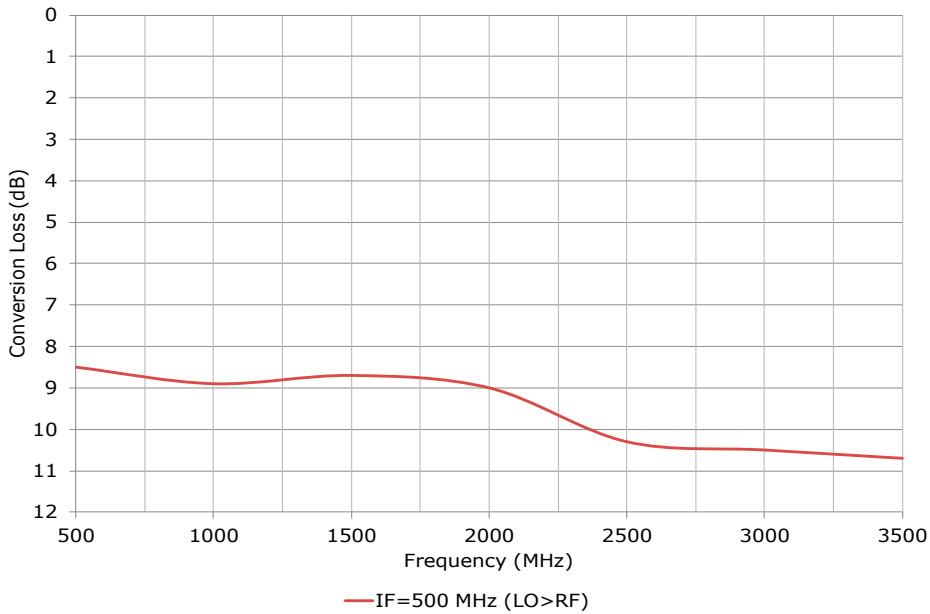
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PERFORMANCE PLOTS



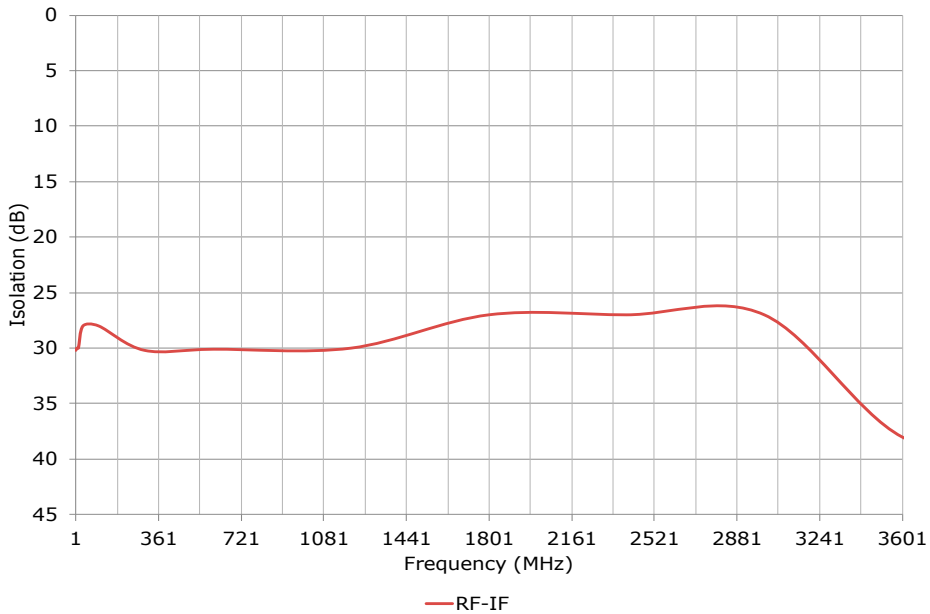
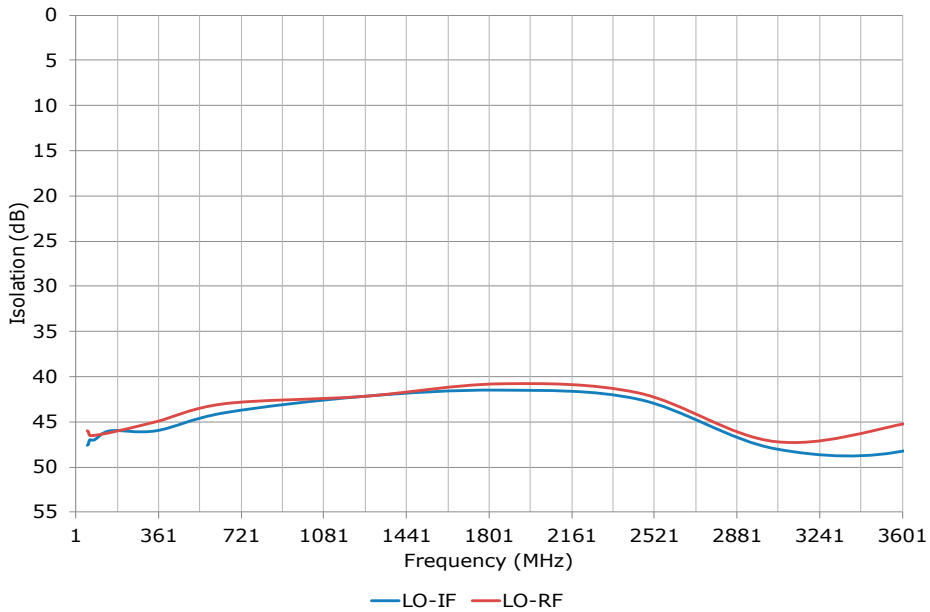
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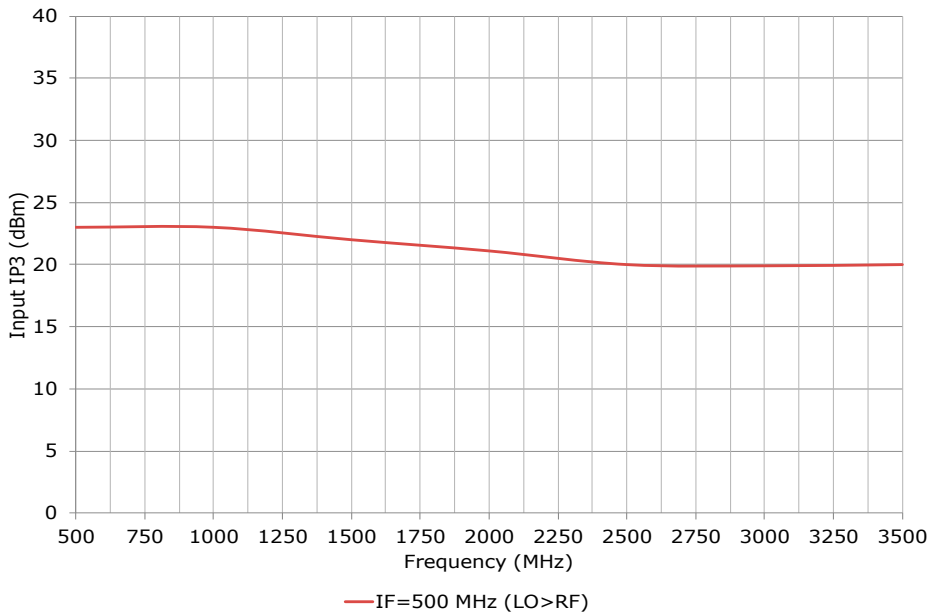
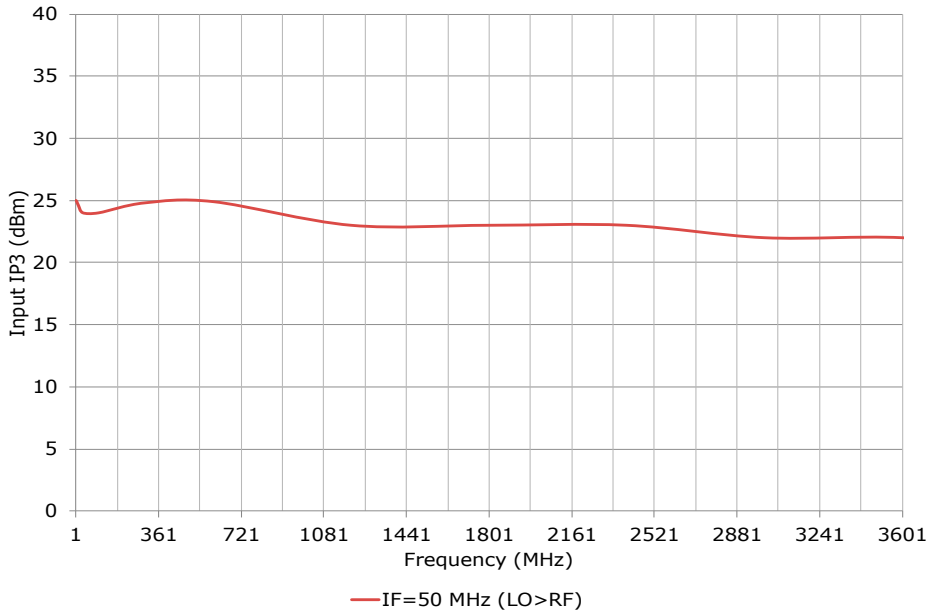
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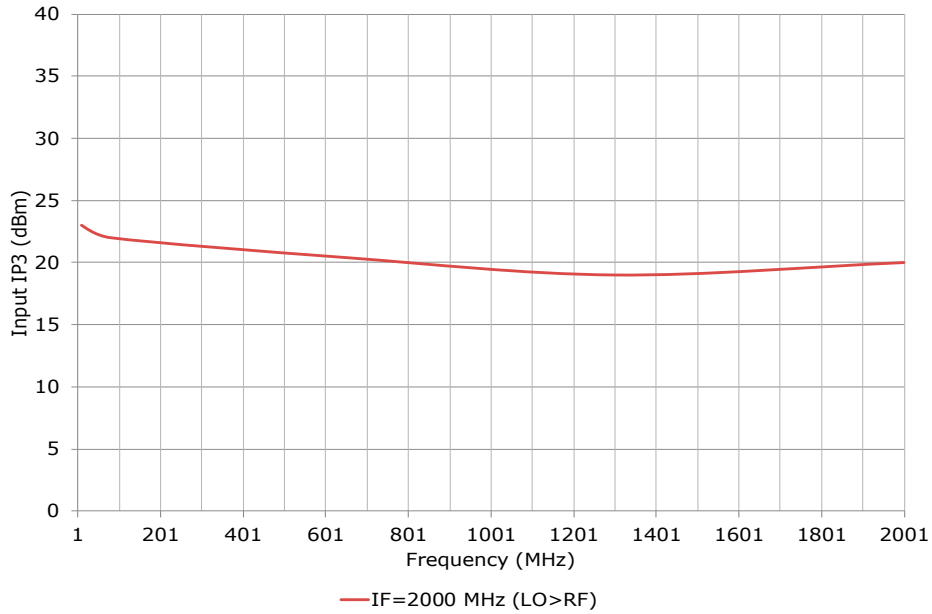


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