

TRIPLE-BALANCED MIXER

SURFACE MOUNT MODEL: STM-6000

WIDE BANDWIDTH

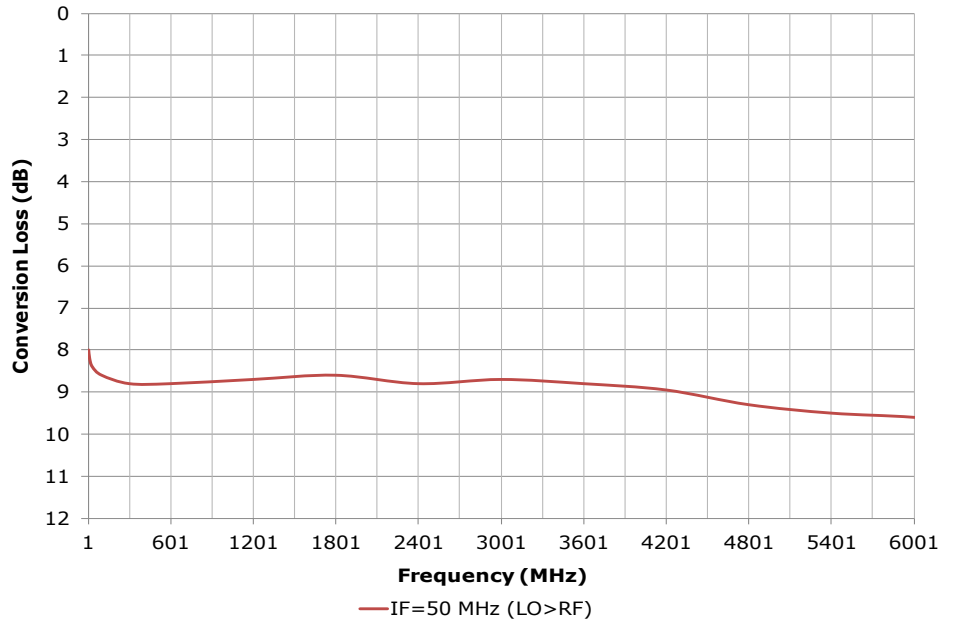
1-6000 MHz

FEATURES:

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

APPLICATIONS:

- ▶ Narrow Band & Broadband Up/Down Conversion.



SPECIFICATIONS (Rev. A 01/17/18)

Frequency (MHz)	LO/RF 1 - 6000	IF 1 - 4000	
Conversion Loss (dB)	Freq (MHz)	Typ.	Max.
	1 - 200	8.3	9.0
	200 - 3000	8.5	10.0
	3000 - 6000	10.5	11.8
Isolation (dB)	LO/RF		
	Typ.	Min.	
	34	23	
	LO/IF		
	Typ.	Min.	
	30	23	
RF/IF			
Typ.	Min.		
24	17		
LO Power ¹	+15 to +23 dBm (Nom.)		
1 dB Compression Point	+11 dBm (Typ.)		
Input IP ³	+21 dBm (Typ.) ¹		
Impedance	50 Ohms (Nom.)		
Operating Temperature Range	-40 to +85 °C		

¹ Typical measurements made with LO at +15 dBm. Improves with higher LO drive.

Package # 357

RECOMMENDED PCB LAYOUT

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7301

PORT CONFIGURATION			
RF	LO	IF	GND
4	8	6	All Other

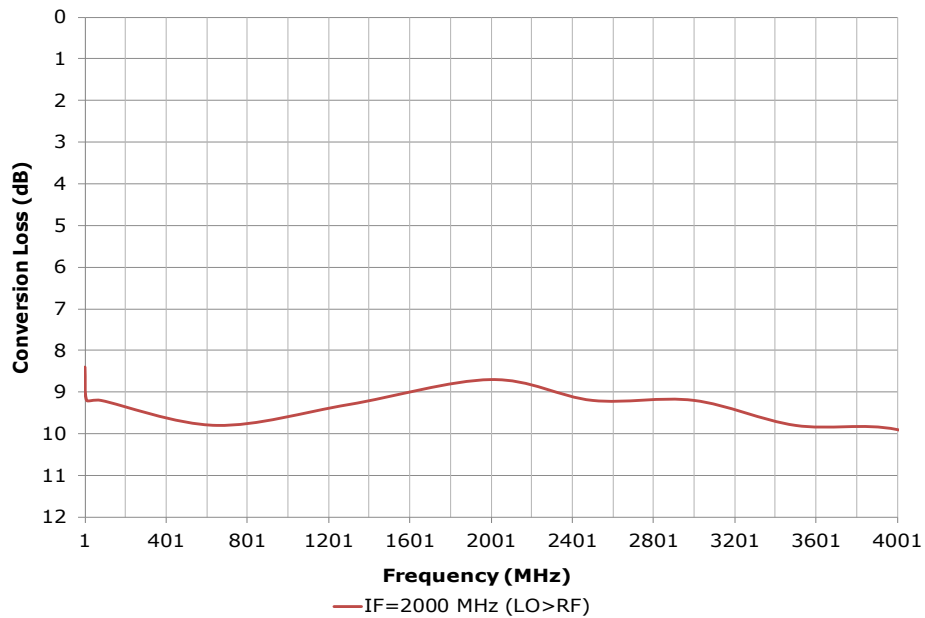
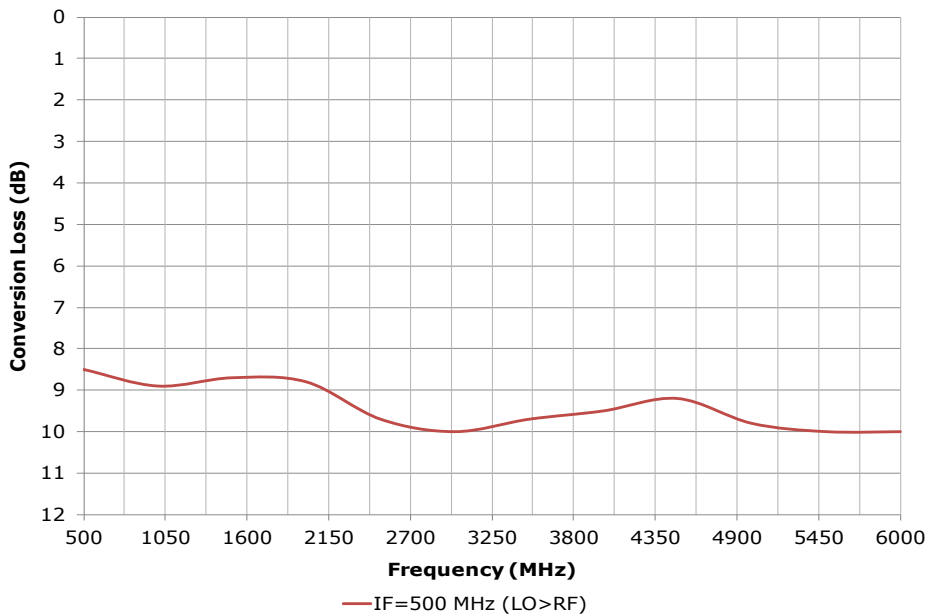
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PERFORMANCE PLOTS



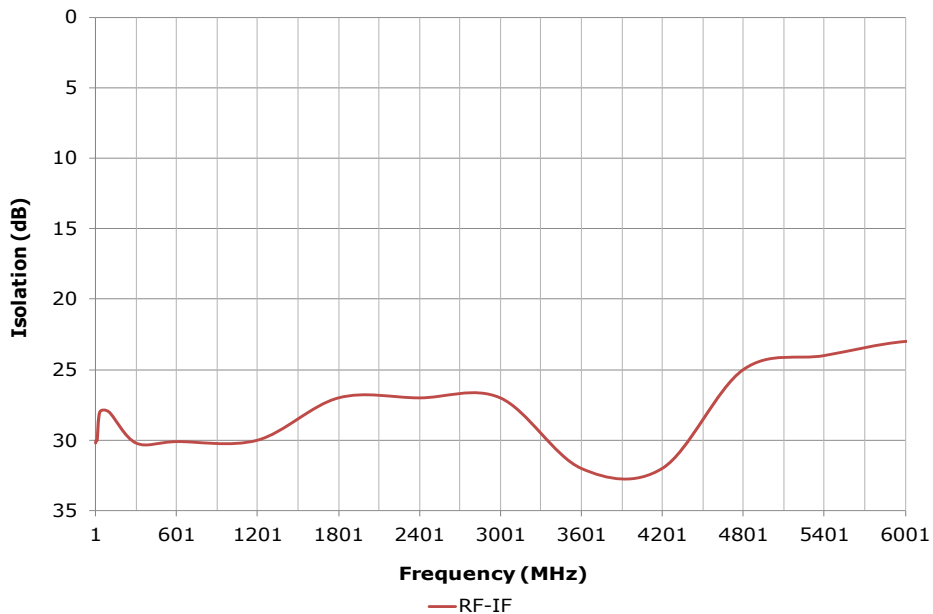
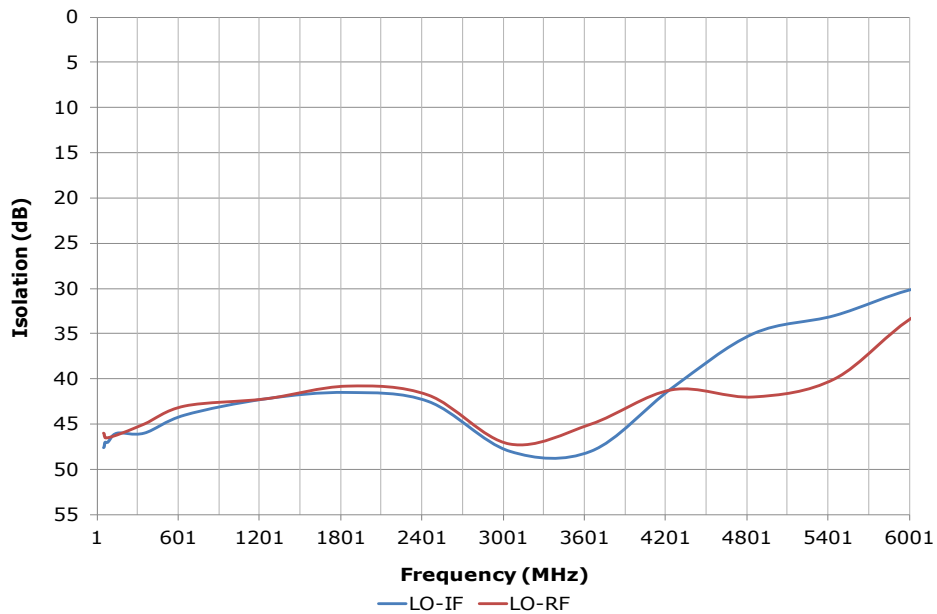
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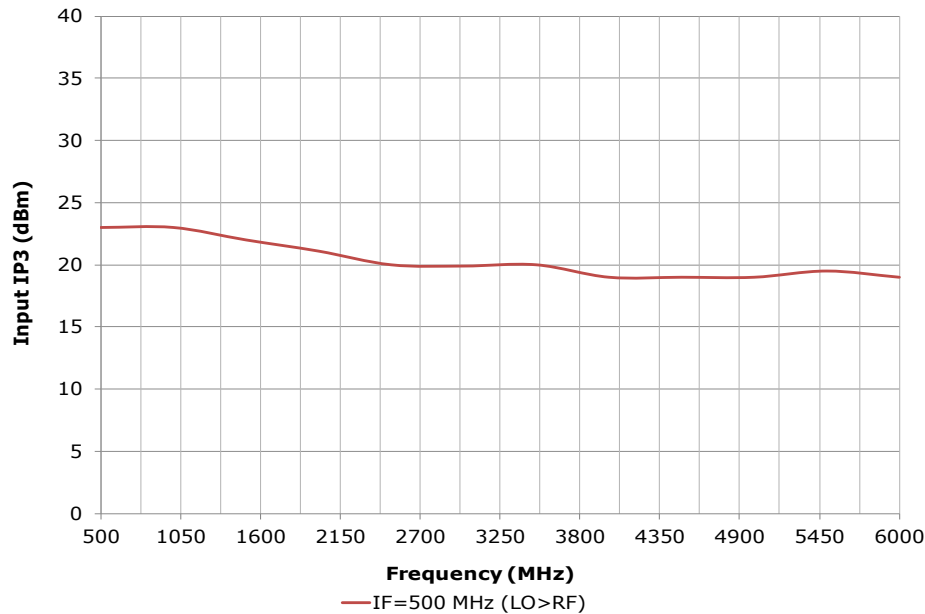
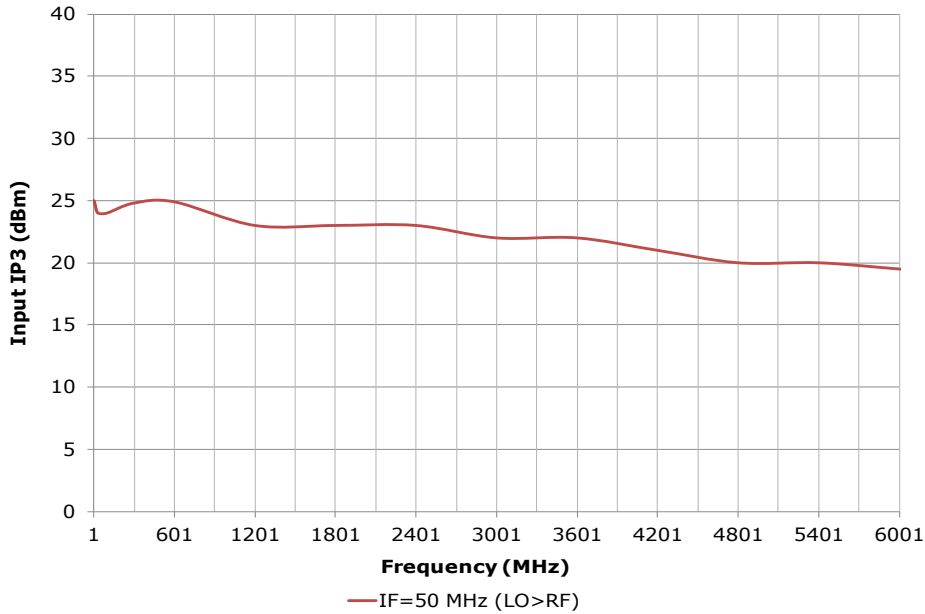
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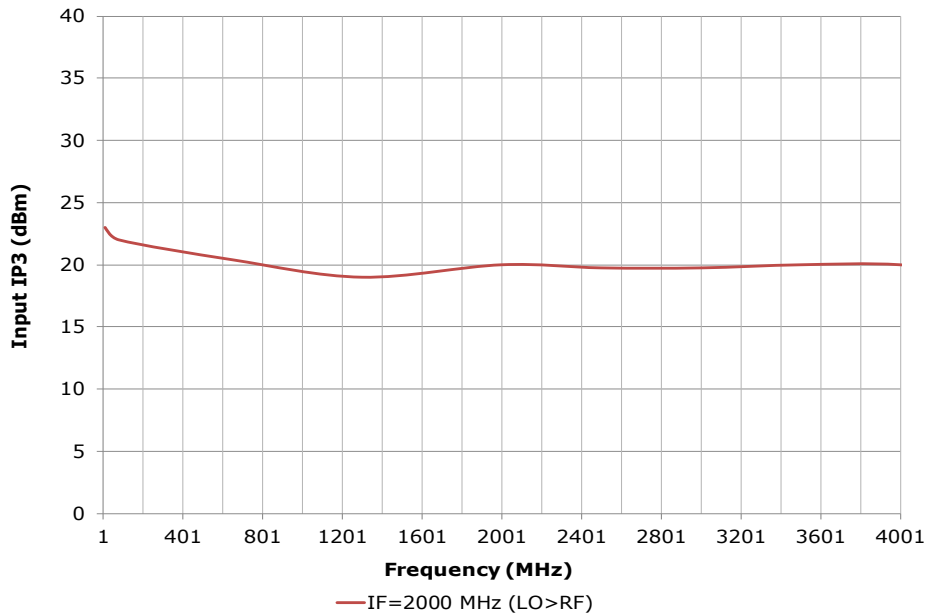


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