

# TRIPLE-BALANCED MIXER

## SURFACE MOUNT MODEL: SMD-5500

WIDE BANDWIDTH

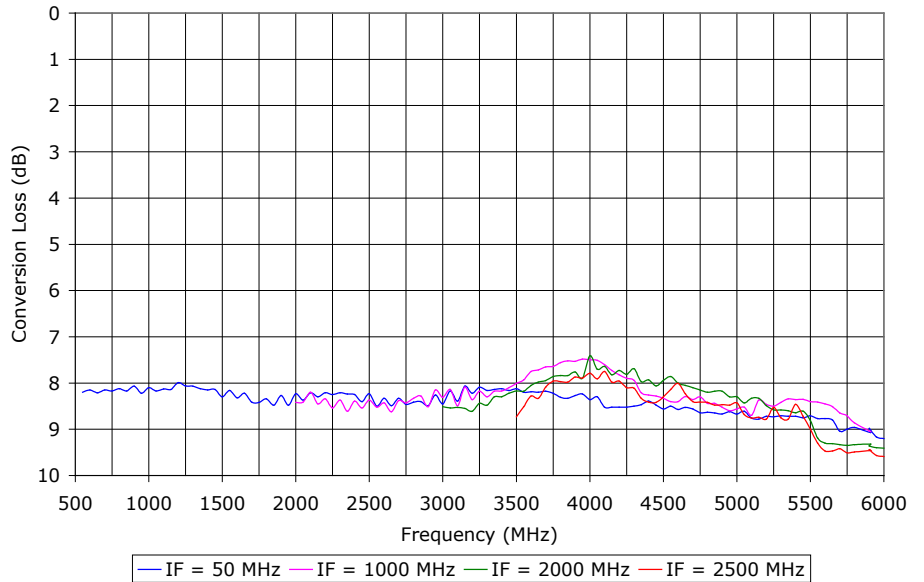
500 - 6000 MHz

### FEATURES:

- ▶ High Performance
- ▶ High Interport Isolation
- ▶ Broad Bandwidth IF
- ▶ Good IF Matching
- ▶ Flat Conversion Loss Response

### APPLICATIONS:

- ▶ Narrow Band & Broadband Up/Down Conversion.



### SPECIFICATIONS (Rev. D 12/03/08)

Frequency (MHz)	LO/RF	IF
	500 - 6000	50 - 2500
Conversion Loss (dB)	Typ.	Max.
	9.5	11.5
Isolation (dB)	Typ./Min.	
	LO/RF	28/15
	LO/IF	23/15
	RF/IF	22/16
LO Power	+13 dBm (Nom.)	
1 dB Compression Point	+9 dBm (Typ.)	
Input IP3	+18 dBm (Typ.)	
RF Input Power	250 mW (Max.)	
Impedance	50 Ohms (Nom.)	
Operating Temperature Range	-40 to +85 °C	

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

