

# DOUBLE-BALANCED MIXER

## SURFACE MOUNT MODEL: SMD6000

**ULTRA WIDE BANDWIDTH**

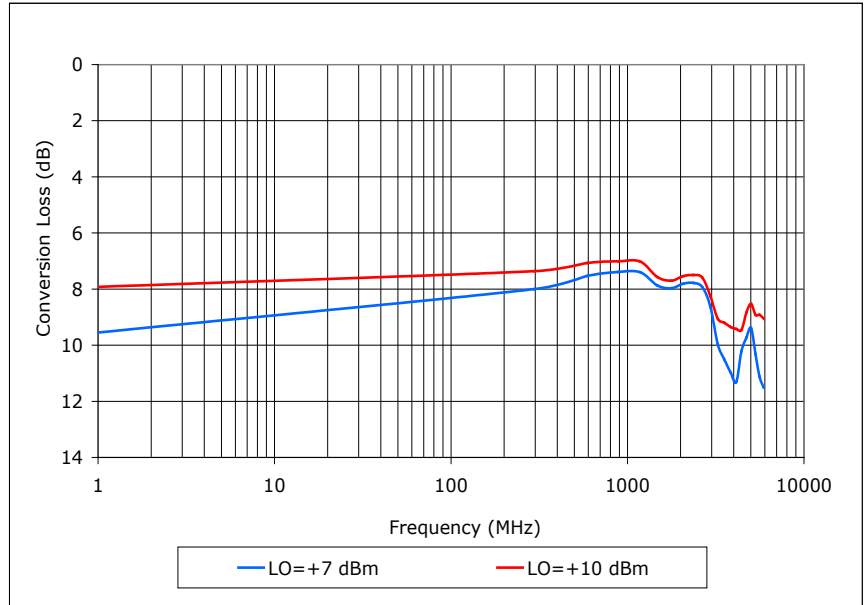
**1 - 6000 MHz**

**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. C 11/11/10)**

Frequency (MHz)	LO/RF	IF
	1 - 6000	DC - 700
Conversion Loss (dB)	Typ.	Max.
	8.5	10.0
Isolation (dB)	Typ./Min.	
	LO/RF	25/15
	LO/IF	18/12
	RF/IF	15/12
LO Power	+10 dBm (Nom.)	
1 dB Compression Point	+3 dBm (Typ.)	
Input IP3	+15 dBm (Typ.)	
Impedance	50 Ohms (Nom.)	
Operating Temperature Range	-40 to +75 °C	

**Package #** 133

**LAYOUT FOR PRINTED CIRCUIT DESIGN.**

**PORT CONFIGURATION**

RF	LO	IF	GND.
1	2	3	All Other

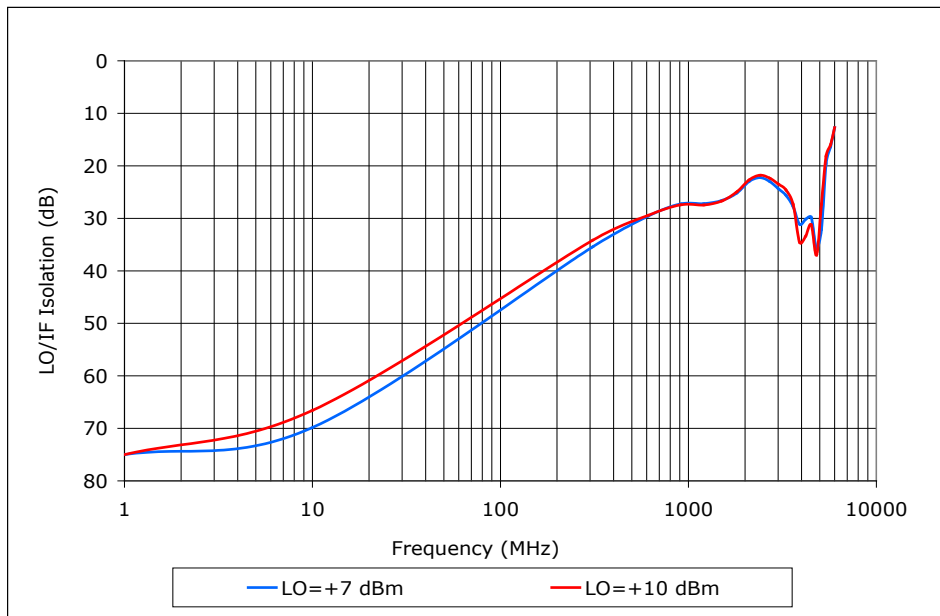
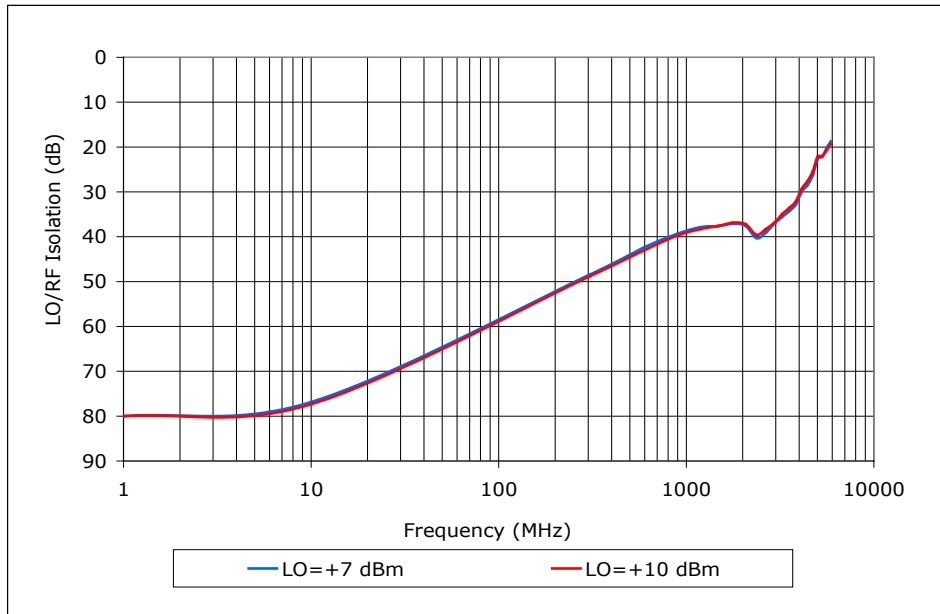
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PERFORMANCE PLOTS

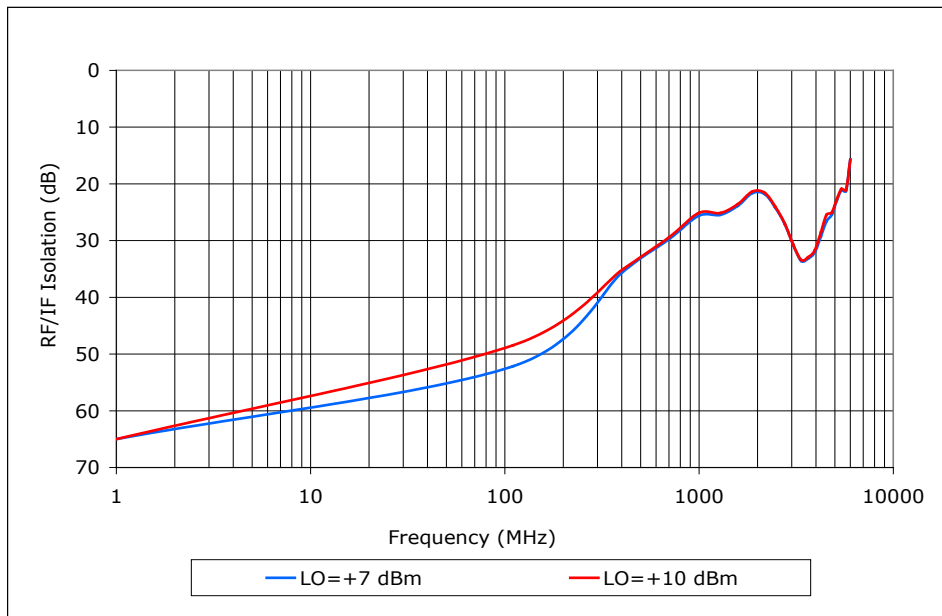


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