

# FREQUENCY DOUBLER

## SURFACE MOUNT MODEL: SMX-C9

**WIDE BANDWIDTH**

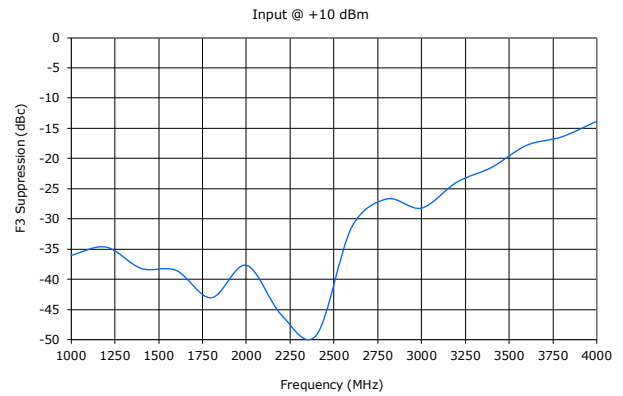
**500 - 2000 MHz**

**FEATURES:**

- ▶ Low Conversion Loss
- ▶ Good Harmonic & Sub-Harmonic Rejection
- ▶ Small Size, Surface Mount
- ▶ Lead Free REL-PRO® Technology



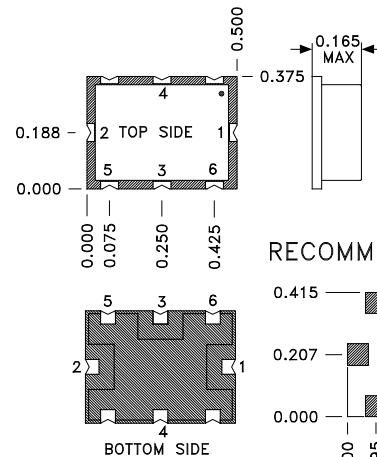
**Harmonic Rejection**



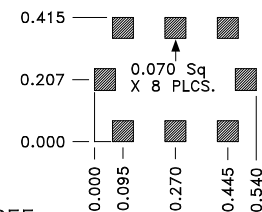
**SPECIFICATIONS (Rev. A 04/08/09)**

Frequency (MHz)	Input	500 - 2000	
	Output	1000 - 4000	
Input Power (dBm)	Min.	+10	
	Max.	+16	
Conversion Loss (dB)	Typ.	12.0	
	Max.	17.0	
Harmonic Suppression (dB)	F1	Typ. 15.0	Min. 10.0
	F3	Typ. 20.0	Min. 15.0
Output Impedance	50 Ohms (Nom.)		
Operating Temperature Range	-20 to +70 °C		

Package # 133



**RECOMMENDED PCB LAYOUT**



TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200

Port Configuration			
Input	Output	No Conn.	Gnd.
1	2	3	All Others

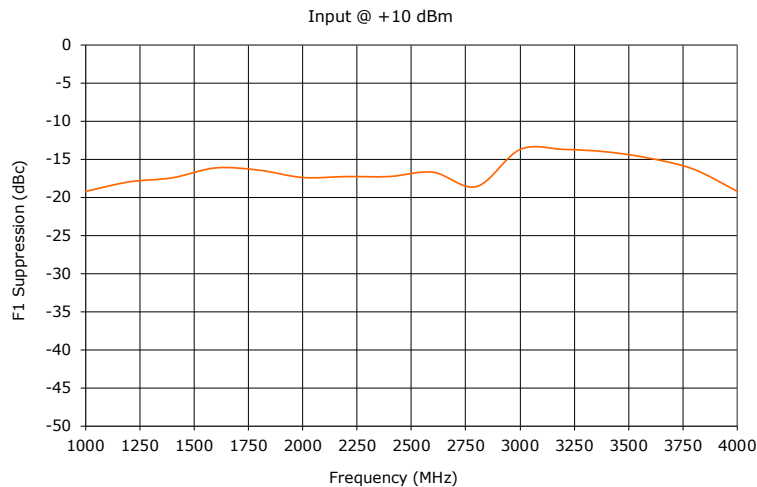
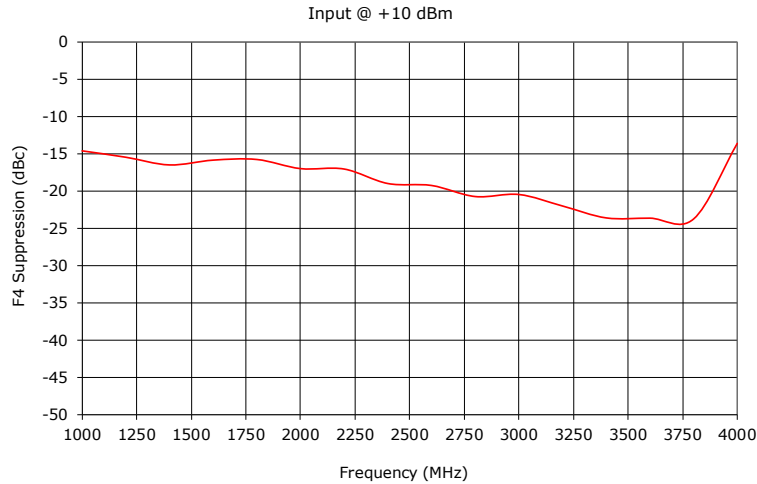
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PERFORMANCE PLOTS

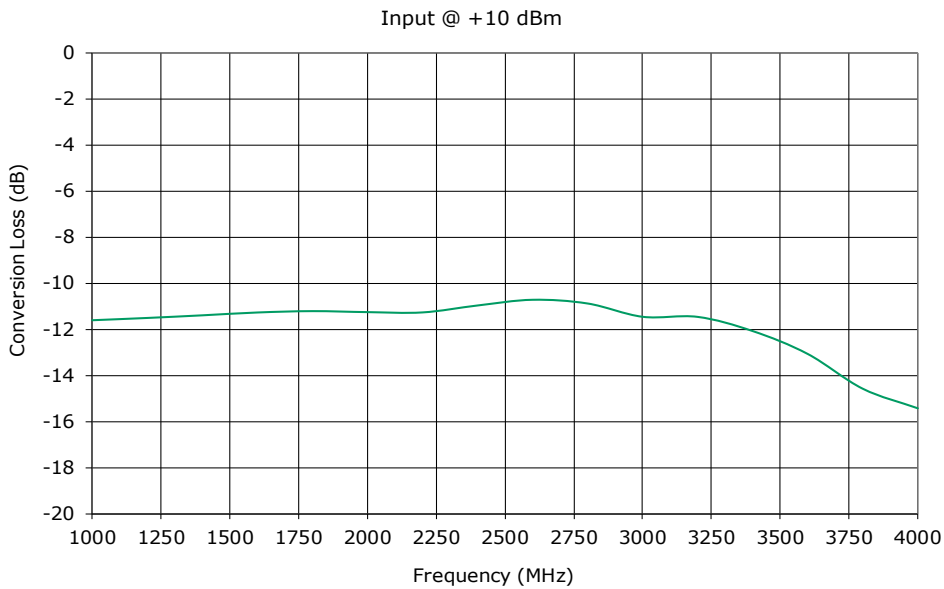


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