

DOUBLE-BALANCED MIXER

SURFACE MOUNT MODEL: SMD-K2B

WIDE BANDWIDTH

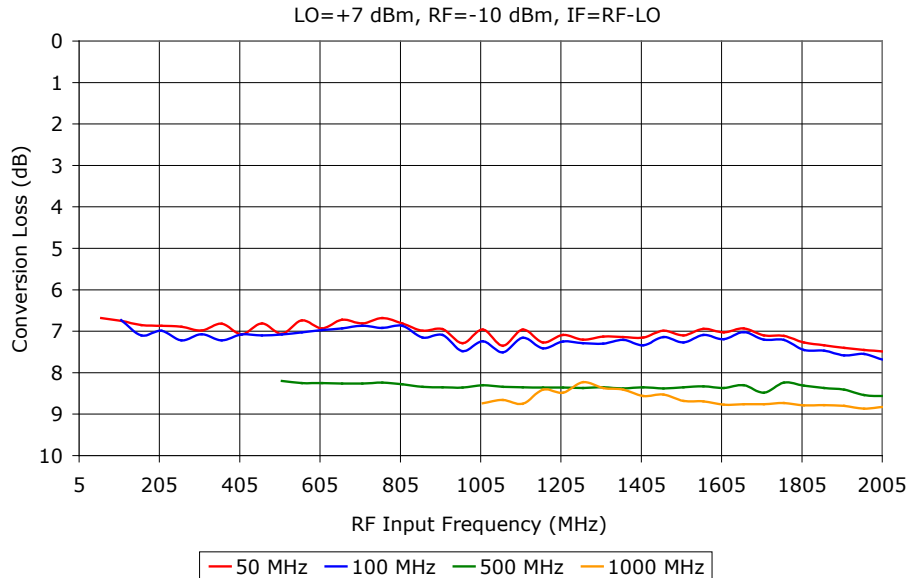
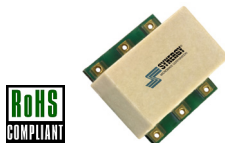
5 - 2000 MHz

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 01/30/14)

Frequency (MHz)	LO/RF 5 - 2000	IF DC - 1000	
Conversion Loss (dB)	Freq. (MHz)	Typ.	Max.
	10 - 1000	7.0	8.5
Isolation (dB)	LO/RF		
	Freq. (MHz)	Typ./Min.	
	5 - 50	65/55	
	50 - 1000	42/32	
	1000 - 2000	38/28	
	LO/IF (dB)		
Freq. (MHz)	Typ./Min.		
5 - 50	55/40		
50 - 1000	32/25		
1000 - 2000	35/23		
LO Power	+7 dBm (Nom.)		
1 dB Compression Point	+1 dBm (Typ.)		
Input IP ³	+13 dBm (Typ.)		
RF Input Power	100 mW (Max.)		
Impedance	50 Ohms (Nom.)		
Operating Temperature Range	-40 to +85 °C		

Package # 134LF

REL-PRO PATENT NO. 7,612,296

RECOMMENDED PCB LAYOUT

DIMENSIONS ARE IN INCHES.

TOLERANCES ON THREE DECIMAL PLACES = ± 0.015

PACKAGE MOUNTING: SEE APPLICATION NOTE AN7200 & AN7300

PORT CONFIGURATION			
RF	LO	IF	GND.
4	1	5	2,3,6

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PERFORMANCE PLOTS

