



CSM4T17



TERMINATION INSENSITIVE MIXER

- LO 1 TO 3400 MHz
- RF 1 TO 3400 MHz
- IF 1 TO 2000 MHz
- LO DRIVE +17 dBm (NOMINAL)
- HIGH INTERCEPT +25 dBm (TYP.)

Specifications (Rev. Date: 2/02)*

Characteristics	Typical	Guaranteed	
		+25°C	-40° to +85°C
SSB Conversion Loss & SSB Noise Figure (max.) f_R 1 to 2400 MHz f_L 1 to 2400 MHz f_I 1 to 2000 MHz f_R 1 to 3400 MHz f_L 1 to 3400 MHz f_I 1 to 2000 MHz	8.0 dB 9.0 dB	9.0 dB 10.0 dB	10.5 dB 11.5 dB
Isolation (min.) L to R f_L = 1 to 2400 MHz f_L = 2400 to 3400 MHz L to I f_L = 1 to 2400 MHz f_L = 2400 to 3400 MHz R to I f_R = 1 to 3400 MHz	35 dB 25 dB 35 dB 25 dB 30 dB	25 dB 20 dB 25 dB 20 dB	23 dB 18 dB 23 dB 18 dB
1 dB Conversion Compression f_I @ +17 dBm	+14 dBm		
Input IP3 (min.) f_L = 100 to 3400 MHz & f_R = 100 to 3400 MHz f_I = 50 to 2000 MHz	+25 dBm		
VSWR R-Port f_R = 1 to 3400 MHz L-Port f_L = 1 to 3400 MHz I-Port f_I = 1 to 2000 MHz	2.0:1 2.0:1 2.0:1		

*Measured in a 50-ohm system with nominal LO drive level and downconverter application only, unless otherwise specified.

Absolute Maximum Ratings

Operating Temperature	-54°C to +85°C
Storage Temperature	-65°C to +100°C
Peak Input Power	+20 dBm max. at +25°C, +17 dBm at +85°C
Peak Input Current	50 mA DC

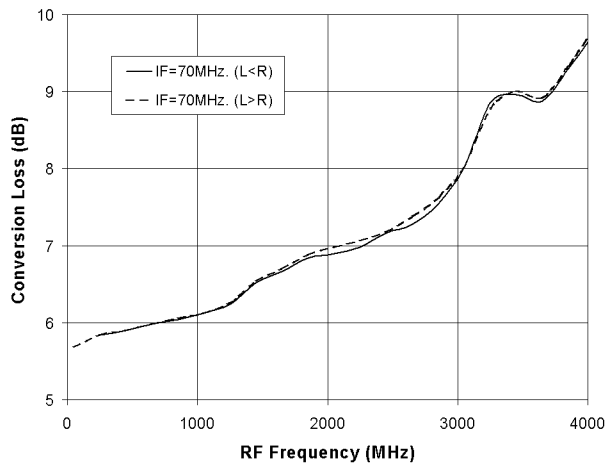
Outline Drawing(s)

Package	Figure	Model
Surface Mount	AK	CSM4T17

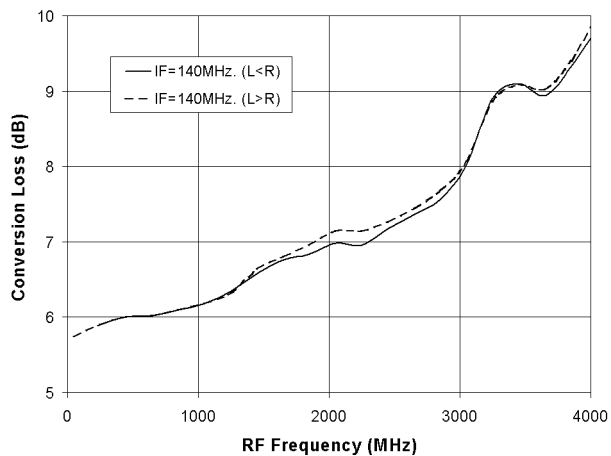


Typical Performance at 25°C

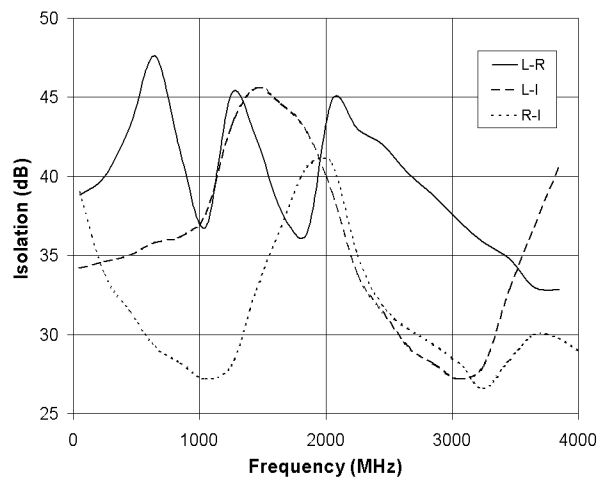
Conversion Loss vs. RF Frequency



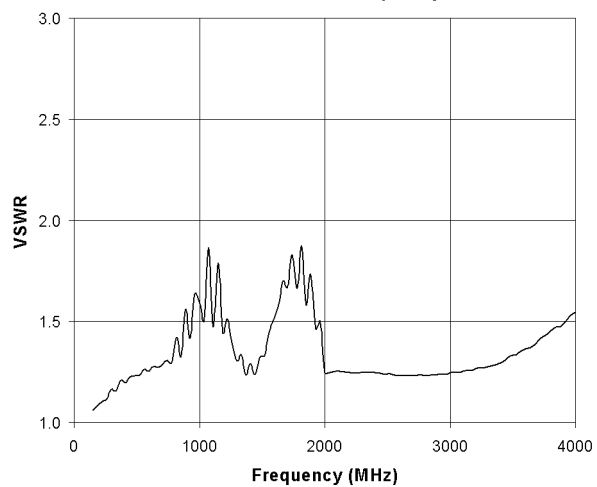
Conversion Loss vs. RF Frequency



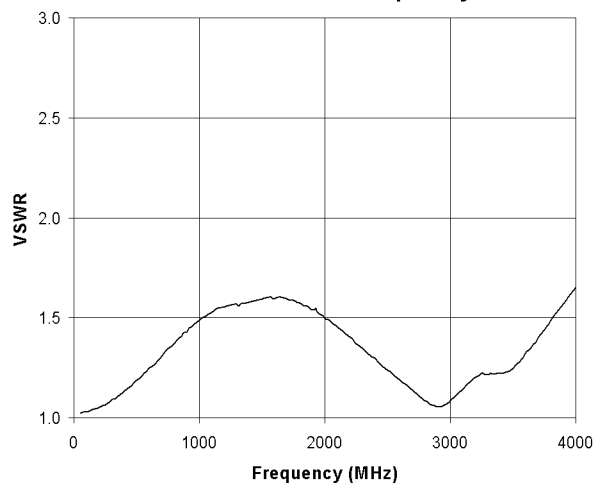
Isolation vs. Frequency



LO-Port VSWR vs. Frequency



RF-Port VSWR vs. Frequency



IF-Port VSWR vs. Frequency

