



# CSM5T17



## WIDE BAND TERMINATION INSENSITIVE MIXER

- LO 50 TO 4800 MHz
- RF 50 TO 4800 MHz
- IF 50 TO 3000 MHz
- LO DRIVE +17 dBm (NOMINAL)
- HIGH INTERCEPT +23 dBm (TYP.)

### Specifications (Rev. Date: 2/02)\*

Characteristics	Typical	Guaranteed	
		+25°C	-40° to +85°C
SSB Conversion Loss & SSB Noise Figure (max.) $f_R$ 0.05 to 3.4 GHz $f_L$ 0.05 to 3.4 GHz $f_I$ 0.05 to 3.0 GHz $f_R$ 3.4 to 4.8 GHz $f_L$ 3.4 to 4.8 GHz $f_I$ 0.05 to 3.0 GHz	7.8 dB 10.0 dB	8.5 dB 11.5 dB	11.5 dB 12.5 dB
Isolation (min.) L to R $f_L$ = 0.05 to 4.8 GHz,  L to I $f_L$ = 0.05 to 4.8 GHz  R to I $f_R$ = 0.05 to 2.0 GHz $f_R$ = 2.0 to 4.8 GHz	33 dB  37 dB  30 dB 22 dB	23 dB  22 dB	21 dB  20 dB
1 dB Conversion Compression $f_L$ @ +17 dBm	+14 dBm		
Input IP3 (min.) $f_L$ = 0.5 to 4.8 GHz    & $f_R$ = 0.5 to 4.8 GHz $f_I$ = 0.05 to 3.0 GHz	+23 dBm		
VSWR R-Port $f_R$ = 0.05 to 4.8 GHz L-Port $f_L$ = 0.05 to 4.8 GHz  I-Port $f_I$ = 0.05 to 3.0 GHz	2.0:1  2.0:1  2.0:1		

\*Measured in a 50-ohm system with nominal LO drive level and as a 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	CSM5T	AK

## Typical Performance at 25°C

