



Characteristics	Typical	Guaranteed		
SSB Conversion Loss & SSB Noise Figure (max.)		+25°C	-54° to +85°C	
$f_R = f_L = f_I =$				
$f_{R}$ = $f_{L}$ = $f_{I}$ = $f_{I}$ =				
$f_{R} = f_{L} = f_{I} = f_{I} =$				
$\begin{array}{ccc} IR = & IL = & II = \\ f_{R} = & f_{L} = & f_{I} = \end{array}$				
$\frac{R}{R} = \frac{R}{R} = \frac{R}{R}$ Isolation (min.)				
L to R				
$f_L = f_L = f_L =$				
$f_L = f_L$				
L to I				
$f_L =$				
$f_L = f_L$				
$f_L =$				
R to I				
$f_R =$				
$f_R =$				
1 dB Conversion Compression				
f <sub>L</sub> @				
f <sub>L</sub> @				
Input IP3				
$\mathbf{f}_{\mathrm{R1}} = \mathbf{f}_{\mathrm{R2}} =$				
$f_L =$				
$\mathbf{f}_{\mathbf{R}\mathbf{I}}= \mathbf{f}_{\mathbf{R}2}=$				
$f_L =$				
$\mathbf{f}_{\mathrm{R1}}= \mathbf{f}_{\mathrm{R2}}=$				
$f_L =$				

## Absolute Maximum Ratings

**Operating Temperature** Storage Temperature Peak Input Power Peak Input Current

## Outline Drawing(s)

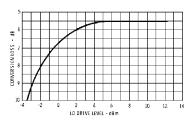
Package	Figure	Model





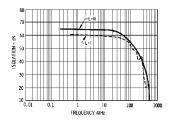
## Typical Performance at 25°C

Conversion Loss

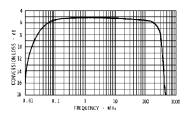


Conversion Loss vs, LO Drive Level: Conversion loss in an SSB system as a function of drive level (f\_ level), with f\_L and f\_R at approximately 50 MHz and f\_R level at -20 dBm.

Isolation



Isolation vs. Frequency: Level of the  $f_L$  signal at the R- and I-port with respect to the available power of +7 dBm from a 50-ohm source used for  $f_L$ .



Conversion Loss vs. Input Frequency: Conversion loss of the mixer when used in an SSB system. The frequency ordinate refers to the inputs  $f_L$  and  $f_R$  with  $f_1$  at 20 MHz.