

SURFACE MOUNT MIXER

Features

- Frequency Range: LO & RF 10– 1500 MHz, IF DC – 1000 MHz
- L.O. Drive: +13 dBm
- Industry Standard SMT package
- Available in Tape-and -Reel
- Low Cost

Description

The MXB-1501-13 is a medium-high drive level, surface mount mixer designed for applications that require small, low cost and highly reliable surface mount components. This mixer is a double balanced design for wideband high dynamic range use in communications up and down-converter applications.



Specifications

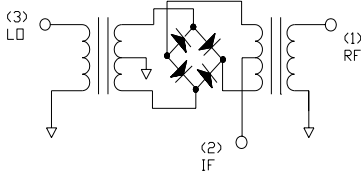
Parameter	Min	Typ	Max	Min	Typ	Max
Frequency Range (MHz)	10		1000	1000		1500
Conversion Loss (dB)		6.5	7.0		7.0	9.5
LO – RF Isolation (dB)	20	25		20	25	
LO – IF Isolation (dB)	20	35		12	16	
IIP ₃ (dBm)		19			19	

Absolute Maximum Ratings

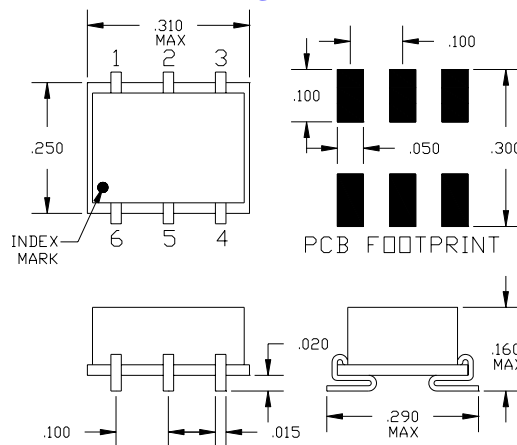
Parameter	Maximum
RF Power	+ 20 dBm
Operating Temperature	-50 to +80 °C
Storage Temperature	-65 to +100 °C
Re-flow Temperature	+ 240 °C

Notes: Test Conditions-LO +13 dBm, RF -10 dBm, IF 30 MHz.
Typical values represent Mid-band performance @ 25°C.

Schematic



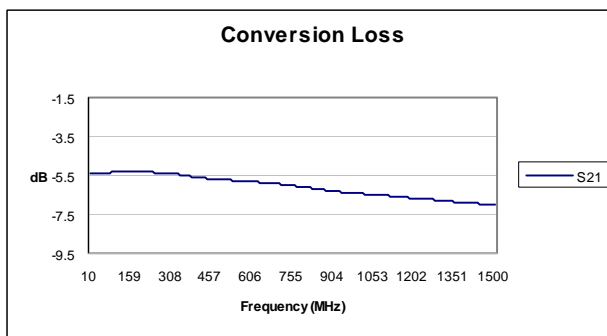
Package – S07



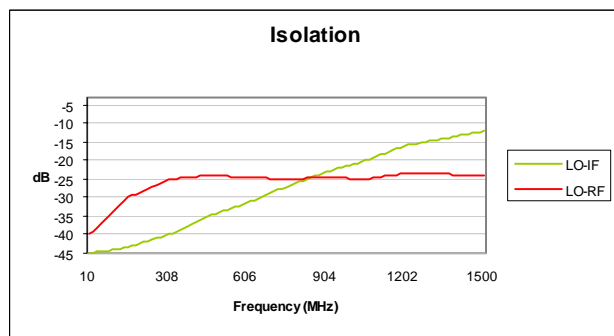
Pin Functions

Function	Pin
LO INPUT	1
RF INPUT	4
IF OUTPUT	5
GROUND	2,3,6

Typical Test Data – Conversion Loss



Typical Test Data – LO-RF and LO-IF Isolation



Specifications and information on this data sheet are subject to change without notice.