

## SURFACE MOUNT MIXER

### Features

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

### Description

The MXB-1501-10 is a medium 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

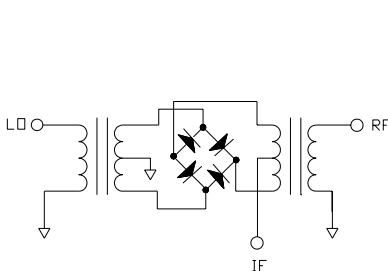
Parameter	Min	Typ	Max	Min	Typ	Max
Frequency Range (MHz)	10		1000	1000		1500
Conversion Loss (dB)		6.0	7.0		7.5	9.5
LO – RF Isolation (dB)	20	25		18	25	
LO – IF Isolation (dB)	15	35		12	15	
IIP <sub>3</sub> (dBm)		15			15	

### Absolute Maximum Ratings

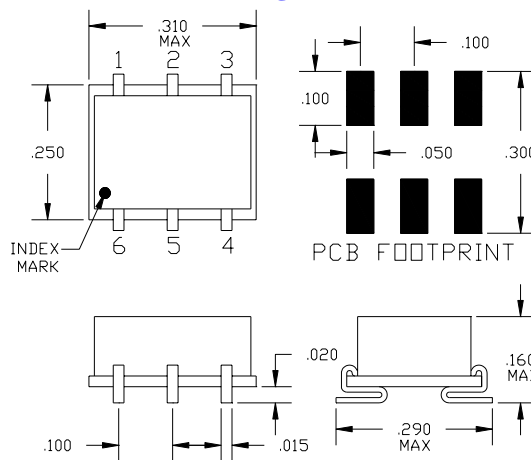
Parameter	Maximum
RF Power	+ 17 dBm
Operating Temperature	-50 to +80 °C
Storage Temperature	-65 to +100 °C
Re-flow Temperature	+ 240 °C

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

### Schematic



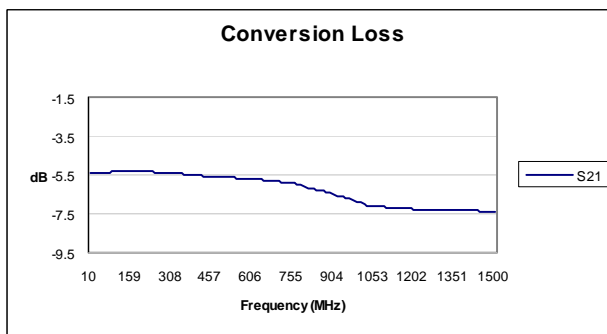
### Package – S07



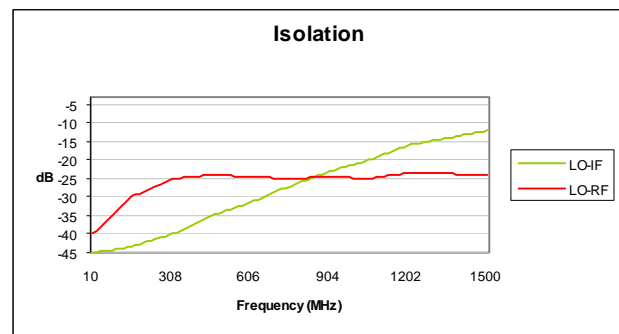
### Pin Functions

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.