



# DOUBLE BALANCED MIXER

**+17 dBm LO POWER**

**MODEL MR44**

## Guaranteed Specifications

Parameter	Range	Limits
Frequency		
LO and RF	5 MHz to 1000 MHz	Min
IF	DC to 1000 MHz	Min
Conversion Loss	10 MHz to 500 MHz	7 dB Max
	500 MHz to 1000 MHz	10 dB Max
Isolation		
LO to RF	5 MHz to 50 MHz	45 dB Min
	50 MHz to 500 MHz	30 dB Min
	500 MHz to 1000 MHz	20 dB Min
LO to IF	5 MHz to 50 MHz	40 dB Min
	50 MHz to 500 MHz	25 dB Min
	500 MHz to 1000 MHz	17 dB Min

Note: All specifications apply in a 50 Ohm system at +17 dBm LO power.

## Operating Characteristics

LO Drive Level	+17 dBm
SSB Noise Figure	<1 dB Greater Than Loss
1dB Compression Point (+17 dBm)	+10 dBm Typ
3 <sup>rd</sup> Order Intercept Point (+17 dBm)	+23 dBm Typ

## Maximum Ratings

Input Power (25°C)	50 mW Max
Input Current (IF Port, 25°C)	40 mA Max
DC Offset	<2mV Typical
Operating Temperature	-54°C to 85°C
Storage Temperature	-65°C to 125°C
Pin Temperature	260°C for 10 Sec Max

## Reliability

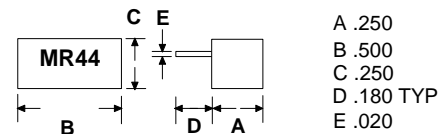
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

Test	Method	Condition
Temperature Cycle	107G	A
Thermal Cycle	107G	AA
Vibration	204D	A
Mechanical Shock	213B	C

## Features

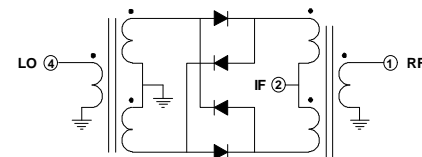
- ♦ Mini Relay Header

## Outline Drawing



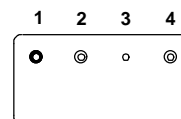
Pin 1 bead is a different color.  
Pins on .100" grid.

## Block Diagram



Case is Signal Ground

## Connections



LO	4
RF	1
IF	2
GROUND	3

All characteristics of Tele-Tech products may be modified to meet customer requirements.

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