



# IMAGE REJECT/SSB MIXER

## MODEL 9240-27

### Guaranteed Specifications

Parameter	Limits
Frequency RF – LO	144 ±7 MHz
Frequency IF	455 ±20 kHz
LO Power	+7 dBm to +10 dBm
Conversion Loss	6 dB
LO – RF Isolation	35 dB Min
Sideband Rejection	30 dB Min
Image Rejection	30 dB Min
VSWR IF & RF	1.1:1 Max
LO	1.6:1 Max
IIP3	+15 dBm Typ
1 dB Compression Point	+5 dBm Typ

Note: All Specifications apply in a 50 Ohm system at specified levels at 25°C.

### Applications:

SSB upconvertors or image reject downconvertors.

### Maximum Ratings

Input Power	+13 dBm Max
Temperature Range	0°C to 85°C

### Reliability

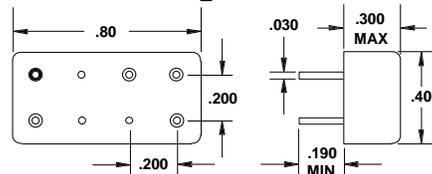
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

Test	Method	Condition
Temperature Cycle	107G	A
Thermal Cycle	107G	AA
Seal	112E	D
Vibration	204D	A
Solderability	208F	
Terminal Strength	211A	A
Terminal Fatigue	211A	C
Mechanical Shock	213B	C

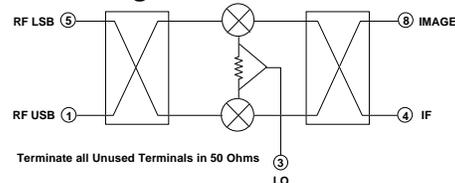
### Features

- ◆ Typical Rejection >35 dB
- ◆ Image Reject Mixer
- ◆ Small Footprint
- ◆ SSB Mixer

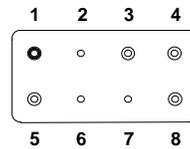
### Outline Drawing



### Block Diagram



### Connections



RF USB	1
LO	3
IF	4
RF LSB	5
IMAGE	8
GROUND	2,6,7

Glass bead on Pin 1 a different color

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

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