



IQ ASSEMBLY

MODEL 9010-32

Guaranteed Specifications

Parameter	Limits
Frequency	500 MHz $\pm$ 50 MHz
Phase Range	0 – 360 °
Input Level REF	+10 dBm
SIG	0 dBm
SIN/COS Power	100 mV Peak Typ
Rise Time	<10 nSec
Impedance	50 Ohms All Ports
Amplitude Balance	$\pm$ 1 dB Max
Angular Accuracy ²	$\pm$ 2° Max

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

² ARC TAN (SIN/COS)

Maximum Ratings

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

Reliability

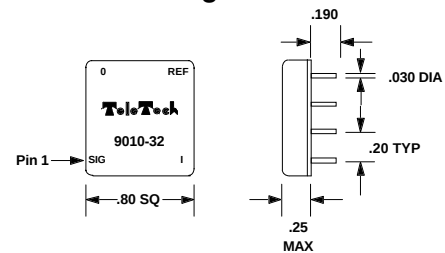
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

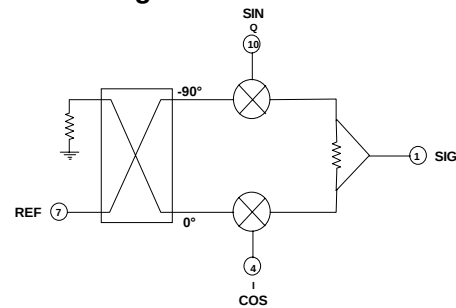
Applications

- ◆ Phase Comparator
- ◆ Image Reject Mixer
- ◆ IQ Mod/Demod
- ◆ SSB Mixer

Outline Drawing

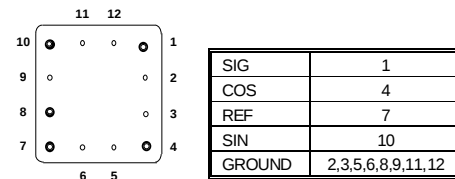


Block Diagram



Case is Signal Ground

Connections



Glass bead on Pin 1 a different color

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