



IQ ASSEMBLY

MODEL 9010-33

Guaranteed Specifications

Parameter	Limits
Frequency	80 MHz $\pm$ 4 MHz
Phase Range	0 – 360°
Input Level	REF +26 dBm
	SIG -7 dBm
SIG Frequency	60 MHz to 100 MHz
Video Bandwidth	20 MHz Min
Insertion Loss	12 dB Max
Harmonic Spurious	-80 dBc (0-5 MHz)
Impedance	50 Ohms All Ports

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

Maximum Ratings

Input Power	+27 dBm Max
Temperature Range	0°C to 85°C

Reliability

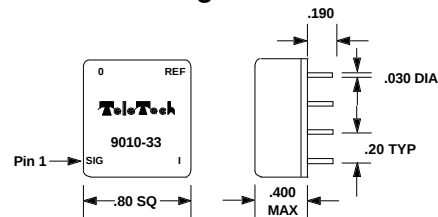
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

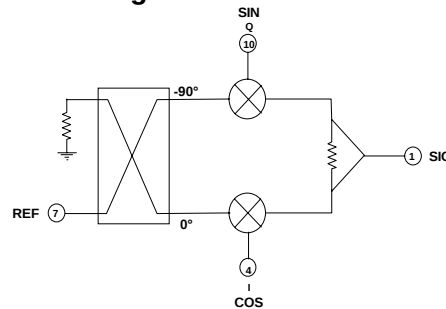
Applications

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

Outline Drawing

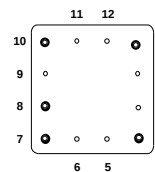


Block Diagram



Case is Signal Ground

Connections



SIG	1
COS	4
REF	7
SIN	10
GROUND	2,3,5,6,8,9,11,12

Glass bead on Pin 1 a different color

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