



IQ ASSEMBLY

MODEL 9010-36

Guaranteed Specifications

Parameter	Limits
Frequency	50 MHz to 90 MHz
Phase Range	0 – 360°
Insertion Loss	9 dB Max
Input Level	REF +10 dBm
	SIG -10 dBm
SSB Rejection	25 dB Min
Isolation (REF/SIG)	45 dB Min
Amplitude Balance	±1 dB Max
Phase Balance	±3°
Harmonics	-35 dBc Typ

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

Maximum Ratings

Input Power	13 dBm Max
Temperature Range	-25°C to 85°C

Reliability

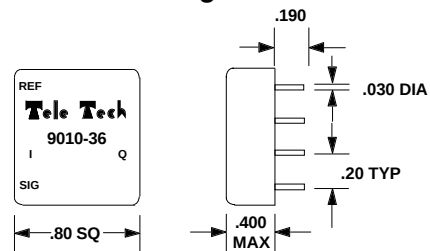
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

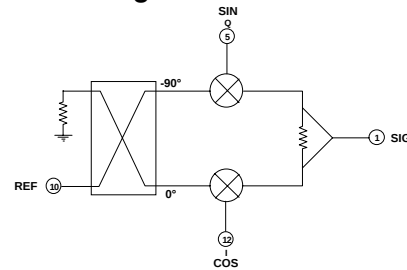
Applications

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

Outline Drawing

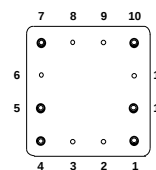


Block Diagram



Case is Signal Ground

Connections



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

Glass bead on Pin 1 a different color

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