



IQ ASSEMBLY

MODEL 9011-30

Guaranteed Specifications

Parameter	Limits
Frequency	30 $\pm$ 3 MHz
Phase Range	0 – 360°
VSWR (SIG & REF)	1.5:1 Min
Input Level REF	+10 dBm
SIG	0 dBm
Video Bandwidth	10 MHz Min
Angular Accuracy ²	$\pm$ 5° Max
Amplitude Balance	$\pm$ 1 dB Max
SIN & COS Outputs	125 mV (Peak to Peak Typ)

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

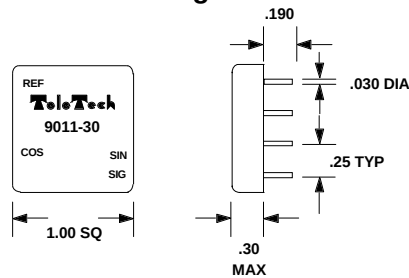
All units are designed and constructed to meet or exceed specifications after exposure to any or all of the following MIL-STD-202 tests which are applicable.

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

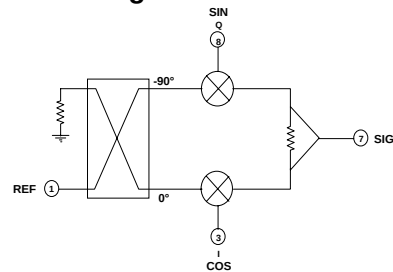
Applications

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

Outline Drawing



Block Diagram



Case is Signal Ground

Connections

11	12	1
10	9	2
8	7	3
6	5	4

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

Glass bead on Pin 1 a different color.

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