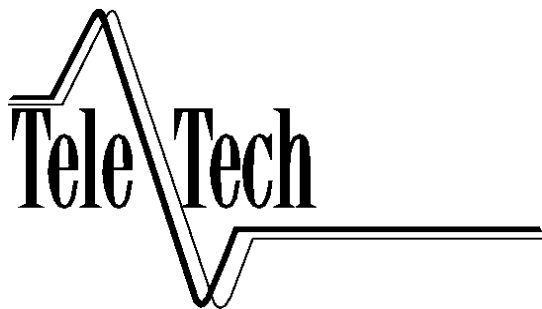


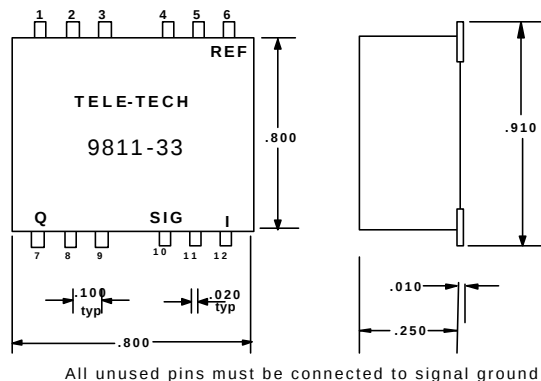


# IQ ASSEMBLY

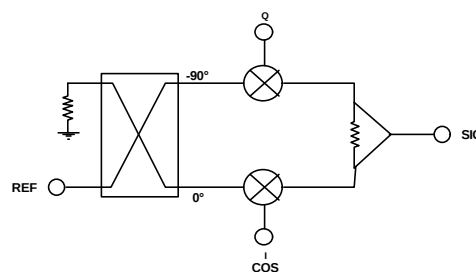
## MODEL 9811-33

| Parameter             | Range           |
|-----------------------|-----------------|
| Frequency             | 950 to 1525 MHz |
| I/Q Frequency         | DC to 10 MHz    |
| LO Power              | +10 dBm         |
| RF Power              | -5.0 dBm        |
| Conversion Loss       | 11.0 dBm        |
| Impedance             | 50 Ohm          |
| Amplitude Balance     | +/- 0.6 dB Max  |
| Phase Balance         | +/- 7.0° Max    |
| Input 1dB compression | +5 dBm Min      |
| Input IP3             | +12 dBm         |
| LO-RF Isolation       | 40 dB           |

### Outline Drawing



### Block Diagram



### Maximum Ratings

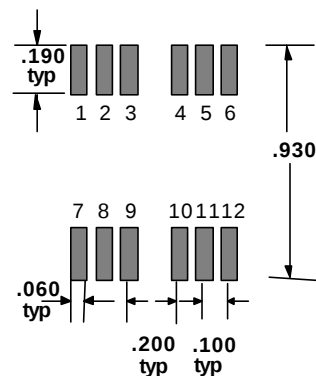
|                   |               |
|-------------------|---------------|
| Input Power       | +13 dBm Max   |
| Temperature Range | -20°C to 70°C |

### 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         |

### Footprint



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