

SPDT RF Switch 200 - 2000 MHz

SW-132

V2.00

Features

- Low Loss – 0.5 dB Typical
- High Isolation – 50 dB Typical
- Integral TTL Driver
- Hermetic Package

Guaranteed Specifications* (From –55°C to +85°C)

| Frequency Range | 200-2000 MHz | |
|-----------------------|--------------|------------|
| Insertion Loss | 200-2000 MHz | 1.0 dB Max |
| | 200-1000 MHz | 0.8 dB Max |
| VSWR | 200-2000 MHz | 1.65:1 Max |
| | 500-1500 MHz | 1.35:1 Max |
| Isolation | 200-2000 MHz | 35 dB Min |
| | 200-1000 MHz | 40 dB Min |
| | 200-500 MHz | 50 dB Min |

Operating Characteristics

| | |
|--|---|
| Impedance | 50 Ohms Nominal |
| Switching Characteristics | |
| t _{ON} | 2.0 μS Typ |
| t _{OFF} | 1.0 μS Typ |
| Transients (In-Band) | 40 mV Typ |
| Input Power for 1 dB Compression | +13 dBm Typ |
| Intermodulation Intercept Point (for two-tone input power up to +5 dBm) | |
| Second Order | +60 dBm Typ |
| Third Order | +30 dBm Typ |
| Bias Power | +9 to +15 VDC @ 35 mA Max –5 VDC ±5% @ 35 mA Max (500 mW Typical) |

Environmental

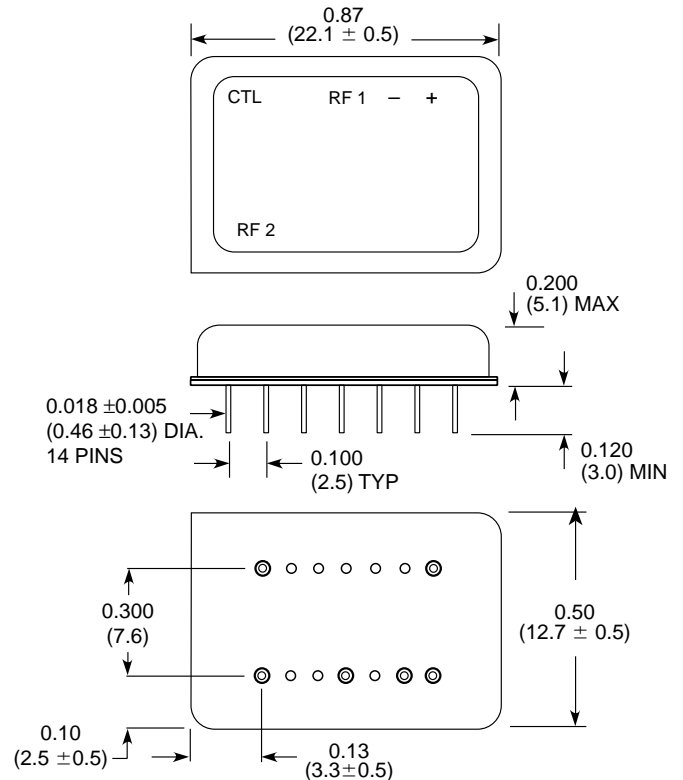
MIL-STD-883 screening available.

+All specifications apply when operated with bias voltages of +12 VDC and -5 VDC (±5%) and 50 ohm impedance at all RF ports.

Ordering Information

| Model No. | Package |
|------------|-------------|
| SW-132 PIN | Dual Inline |

DI-1



Dimensions in () are in mm.
Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
.xx = ±0.02 (.x = ±0.5)

WEIGHT (APPROX.): 0.14 OUNCES 4 GRAMS

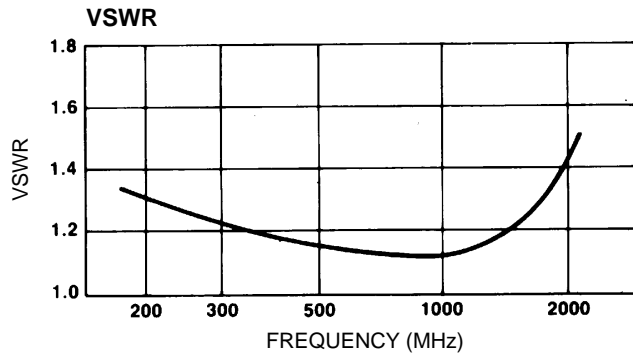
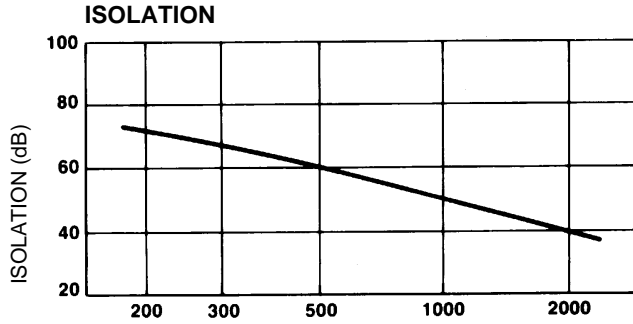
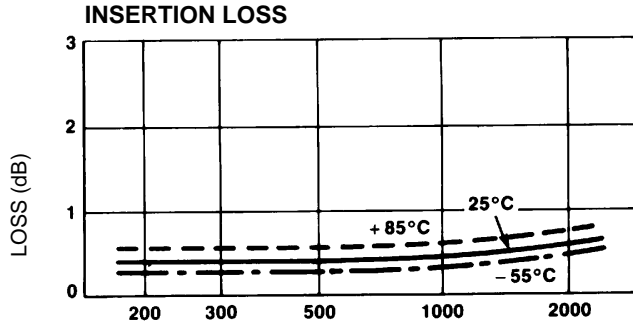
Specifications Subject to Change Without Notice.

M/A-COM, Inc.

North America: Tel. (800) 366-2266 ■ Asia/Pacific: Tel. +81 (03) 3226-1671 ■ Europe: Tel. +44 (1344) 869 595
Fax (800) 618-8883 Fax +81 (03) 3226-1451 Fax +44 (1344) 300 020

Typical Performance

Truth Table



| TTL CONTROL INPUT "1" = TTL LOGIC HIGH | CONDITION OF SWITCH | |
|---|---------------------------|-----|
| | RF COMMON TO EACH RF PORT | |
| | RF1 | RF2 |
| 0 | ON | OFF |
| 1 | OFF | ON |

Specifications Subject to Change Without Notice.