

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

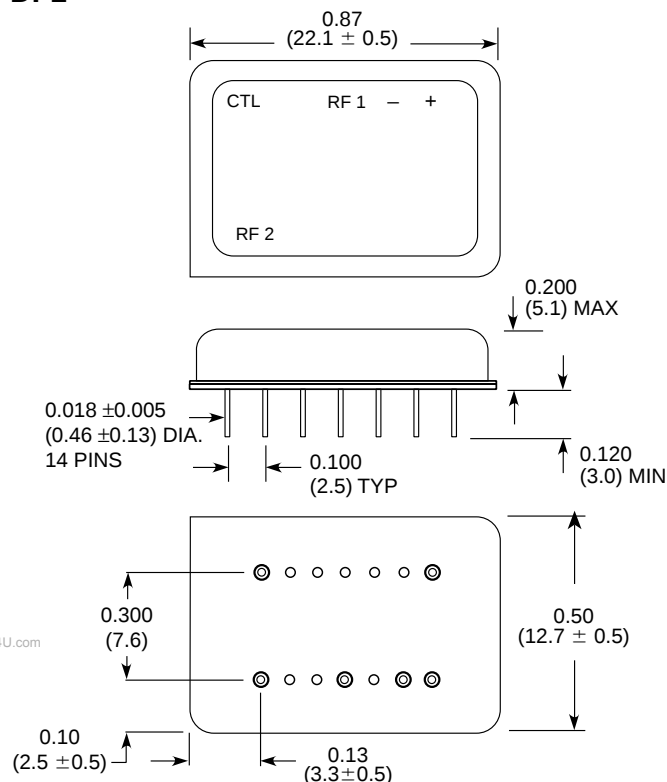
MIL-STD-883 screening available.

+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



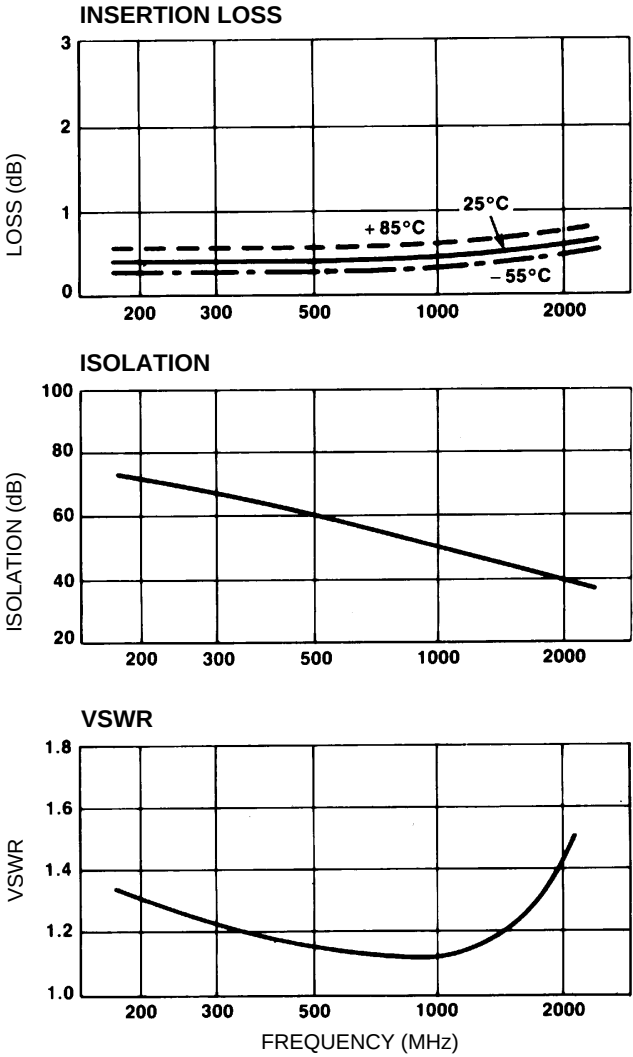
Dimensions in () are in mm.
 Unless Otherwise Noted: .xxx = ±0.010 (.xx = ±0.25)
 .xx = ±0.02 (.x = ±0.5)
 WEIGHT (APPROX.): 0.14 OUNCES 4 GRAMS

Specifications Subject to Change Without Notice.

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Typical Performance



Truth Table

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

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