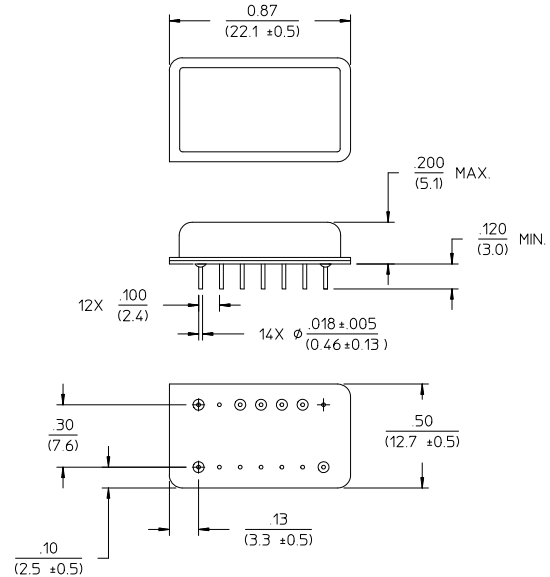


## Features

- Low Insertion Loss: 1.0 dB Typical
- Fast Switching Speed
- Low DC Power Consumption
- Integral TTL
- 50 Ohm Nominal Impedance
- MIL-STD-883 Screening Available

## Description

## Functional Block Diagram



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

## Ordering Information

Part Number	Package
SW-207-PIN	DI-1

Note: Reference Application Note M513 for reel size information.

Note: Die quantity varies.

## Truth Table

TTL Control Input "1" = Logic High TTL	Condition of Switch RF Common to Each RF Port	
	RF1	RF2
0	On	Off
1	Off	On

\* Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

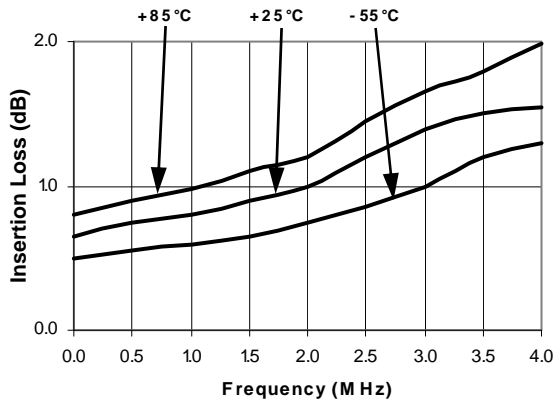
## Electrical Specifications: $T_A = -55^\circ\text{C}$ to $+85^\circ\text{C}$ <sup>1</sup>

Parameter	Test Conditions	Frequency	Units	Min	Typ	Max
Insertion Loss	—	5 - 3000 MHz	dB	—	—	2.3
		5 - 2000 MHz	dB	—	—	1.4
		5 - 1000 MHz	dB	—	—	1.0
VSWR	—	5 - 3000 MHz	Ratio	—	—	2.5:1
		5 - 2000 MHz	Ratio	—	—	1.7:1
		5 - 1000 MHz	Ratio	—	—	1.5:1
Isolation	—	5 - 3000 MHz	dB	18	—	—
		5 - 2000 MHz	dB	28	—	—
		5 - 1000 MHz	dB	38	—	—
Trise, Tfall Ton, Toff Transients	50% CTL to 90/10% RF In-band	—	nS	—	7	—
		—	nS	—	20	—
		—	mV	—	70	—
1 dB Compression	Input Power	0.5 - 3 GHz	dBm	—	+27	—
		0.05 GHz	dBm	—	+21	—
IP <sub>2</sub>	For two tone input power up to +13 dBm	0.5 - 3 GHz	dBm	—	+68	—
		0.05 GHz	dBm	—	+60	—
IP <sub>3</sub>	For two tone input power up to +13 dBm	0.5 - 3 GHz	dBm	—	+27	—
		0.05 GHz	dBm	—	+21	—
Bias Power	+5 VDC	—	mA	—	—	1

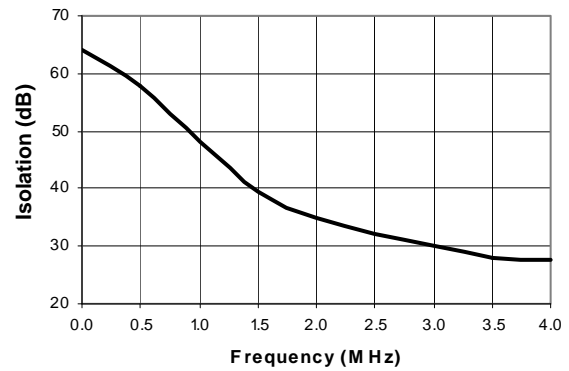
1. All specifications apply when operated with bias voltages of +5 VDC and 50 ohm impedance at all RF ports.

## Typical Performance Curves

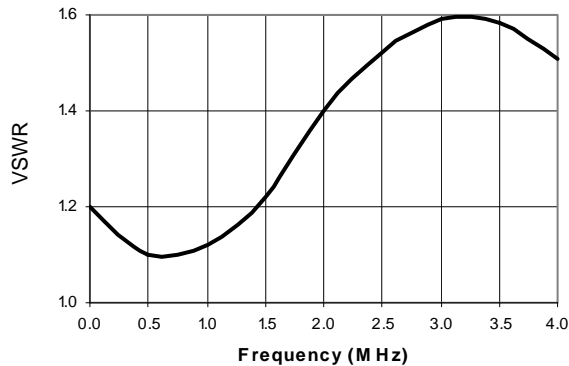
**Insertion Loss**



**Isolation**



**VSWR**



**Schematic**

