



Matched SPDT RF Switch, 20 - 1500 MHz

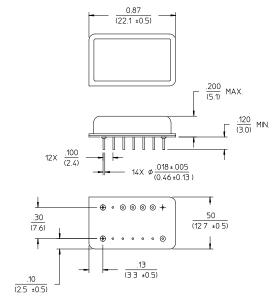
SW-162-PIN V3

Features

- Internally Terminated
- Integral TTL Driver
- Low Loss: 0.8 dB Typical
- 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-162-PIN	DI-1

Note: Reference Application Note M513 for reel size

information.

Note: Die quantity varies.

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			

^{*} Restrictions on Hazardous Substances, European Union Directive 2002/95/EC.

[•] North America Tel: 800.366.2266 / Fax: 978.366.2266

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298





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Electrical Specifications: $T_A = -55^{\circ}C$ to $+85^{\circ}C^{-1}$

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	_	20 - 1500 MHz 20 - 1000 MHz 30 - 500 MHz	dB dB dB			1.5 1.2 2.0
VSWR	_	20 - 1500 MHz 30 - 1000 MHz	Ratio Ratio	=	_	1.50:1 1.25:1
Isolation	_	20 - 1500 MHz 20 - 1000 MHz 30 - 500 MHz	dB dB dB	40 50 60		
Ton Toff Transients	In-band	_ _ _	μS μS mV		3.0 1.5 40	
1 dB Compression	Input Power	20 - 1500 MHz 50 - 1500 MHz	dBm dBm	=	+5 +15	_
IP ₂	For two tone input power up to +5 dBm	20 - 1500 MHz 50 - 1500 MHz	dBm dBm	=	+55 +70	_
IP ₃	For two tone input power up to +5 dBm	20 - 1500 MHz 50 - 1500 MHz	dBm dBm	_	+25 +40	_
Bias Power	+9 to +15 VDC @ 35 mA Max -5 VDC ± 5% @ 35 mA Max	_	mW	_	500	_

^{1.} All specifications apply when operated with bias voltages of +12 VDC and -5 VDC (± 5%) and 50 ohm impedance at all RF ports.

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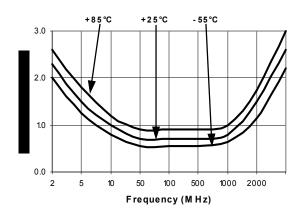


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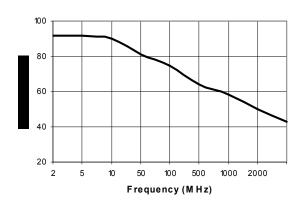
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Typical Performance Curves

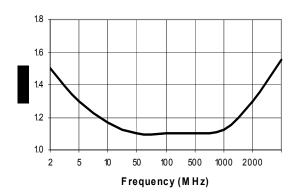
Insertion Loss



Isolation



VSWR



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