



SP4T RF Switch, 10 - 2000 MHz

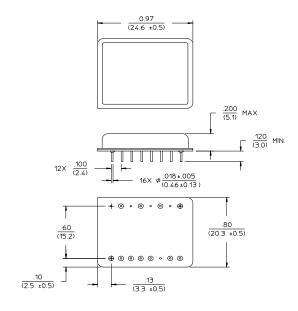
SW-114-PIN

Features

- Ultra Broadband
- High Isolation: 60 dB Typical
- Integral TTL Driver
- Hermetic Package
- 50 Ohm Nominal Impedance
- MIL-STD-883 Screening Available

Description

Functional Block Diagram



Ordering Information

Part Number	Package		
SW-114-PIN	DI-2		

Note: Reference Application Note M513 for reel size

information.

Note: Die quantity varies.

Truth Table

TTL Control Inputs "1" = TTL Logic High			Condition of Switch RF Common to each RF Port				
1	2	3	4	RF1	RF2	RF3	RF4
1	0	0	0	On	Off	Off	Off
0	1	0	0	Off	On	Off	Off
0	0	1	0	Off	Off	On	Off
0	0	0	1	Off	Off	Off	On

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

[•] Europe Tel: 44.1908.574.200 / Fax: 44.1908.574.300

Asia/Pacific Tel: 81.44.844.8296 / Fax: 81.44.844.8298





SP4T RF Switch, 10 - 2000 MHz SW-114-PIN V3

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

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	_	10 - 2000 MHz 10 - 1000 MHz 10 - 500 MHz	dB dB dB			2.8 2.1 1.8
VSWR	_	10 - 2000 MHz 10 - 1000 MHz	Ratio Ratio	_	_	1.8:1 1.2:1
Isolation	_	10 - 2000 MHz 10 - 1000 MHz 10 - 500 MHz	dB dB dB	35 45 60		_ _ _
Ton Toff Transients	In-band	 - 	μS μS mV		2.0 1.0 40	
1 dB Compression	Input Power	_	dBm		+13	_
IP ₂	For two tone input power up to +5 dBm	_	dBm	_	+60	_
IP ₃	For two tone input power up to +5 dBm	_	dBm	_	+30	_
Bias Power	+9 to +15 VDC @ 50 mA Max -5 VDC ± 5% @ 35 mA Max	_	mW	_	550	_

^{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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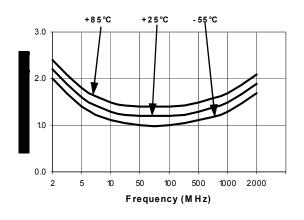




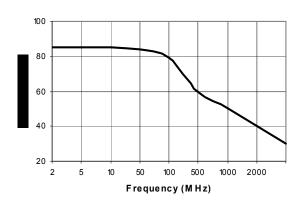
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Typical Performance Curves

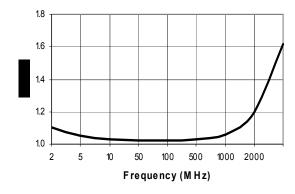
Insertion Loss



Isolation



VSWR



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