

SPDT RF Switch, 20 - 2000 MHz

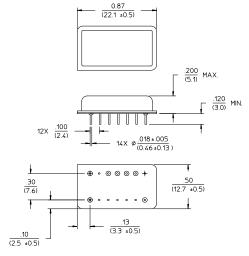
Rev. V3

Features

- Ultra Broadband
- High Isolation: 70 dB Typical
- Integral TTL Driver
- Hermetic Package
- 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-112-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.

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China Tel: +86.21.2407.1588
Visit www.macomtech.com for additional data sheets and product information.

SW-112-PIN



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Electrical Specifications: $T_A = -55$ °C to +85°C ¹

Parameter	Test Conditions	Frequency	Units	Min	Тур	Max
Insertion Loss	_	20 - 2000 MHz 20 - 1000 MHz 20 - 500 MHz	dB dB dB			2.2 2.0 1.8
VSWR	_	20 - 2000 MHz 20 - 1000 MHz	Ratio Ratio	_	_	1.5:1 1.2:1
Isolation	_	20 - 2000 MHz 20 - 1000 MHz 20 - 500 MHz	dB dB dB	50 60 70		
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 @ 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

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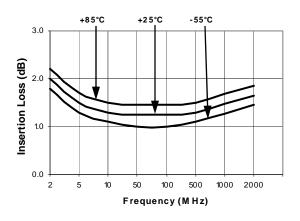


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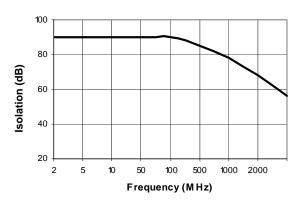
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Typical Performance Curves

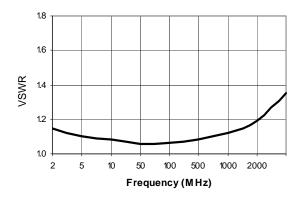
Insertion Loss



Isolation



VSWR



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