

	Cage Code:	Title:	Date:	Rev:	Document no:
	02WLO	PRODUCT DATA (subject to change)	7/29/2009	None	AB-078

(15H04432-01)

This document describes the performance of a high power dual in line SPDT switch. It is used to switch a filter or fixed attenuator in/out of the RF line. This is a cold switched design i.e.; switched while RF is off. Proper bias levels must be applied when operating this device.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY	J1-J2	0.35	1.05	GHz	
1.2	PEAK POWER	J1-J2		125	WATTS	
1.3	PULSE WIDTH	J1-J2	0.4	10	μS	
1.4	DUTY	J1-J2		6	%	
1.5	AVG. POWER	J1-J2		7.5	WATTS	
1.6	CW POWER	J1-J2		7.5	WATTS	
1.7	HARMONICS IN	J1-J2		-10	dBc	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY	J1-J2	1.05	1.5	GHz	
2.2	PEAK POWER	J1-J2		25	WATTS	
2.3	PULSE WIDTH	J1-J2	0.4	10	μS	
2.4	DUTY	J1-J2		6	%	
2.5	AVG POWER	J1-J2		1.5	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY	ALL PORTS	>1.5		GHz	
3.2	PEAK POWER	ALL PORTS		2.5	WATTS	
3.3	PULSE WIDTH	ALL PORTS	0.4	10	μS	
3.4	DUTY	ALL PORTS	0	CW	%	
4	POWER SPECIFICATION	DWG 4188 path				
4.1	MAX POWER, CW OR PULSED	J1-J3; J3-J4		1.0	WATT	
5	OPERATING FREQUENCY		0.35	1.05	GHz	
6	INSERTION LOSS	DWG 4188 path				
6.1		J1-J3		0.8	dB	
6.2		J1-J2, J3-J4		0.6	dB	
7	ISOLATION	DWG 4188 path				
7.1		J1-J3	120		dB	
7.2		J1-J2; J3-J4	40		dB	

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE (Reflective)
8.2	INPUT & OUTPUT, SELECTED PORTS			1.65:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.5:1		
9	SPURS					
9.1	INTERNALLY GENERATED	IN-BAND		-124	dBm	Ports J1-J3 and J3-J4
10	SWITCHING					
10.1	SPEED	50% Logic To 0.5dB		195	nS	
10.2	LOGIC DUTY CYCLE		4	50	%	
10.3	LOGIC SWITCHING RATE		0	100	kHz	
10.4	COMMAND LOGIC	TTL or RS-422				Pin selectable pins 4 and/or 5
10.5	VIDEO LEAKAGE	J3 PORT ONLY		1	mV p-p	IN BAND ACROSS 50 OHMS
10.6	LOGIC TABLE					SEE DWG 4188
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-24	-32	VDC	
11.4	POSITIVE BIAS CURRENT			400	mA	
11.5	NEGATIVE BIAS CURRENT			50	mA	
NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.						
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC & LOGIC					9 PIN "D"
13	MECHANICAL					
13.1	WEIGHT			18	Oz.	
13.2	OUTLINE					SEE DWG 4188
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GROUND MOBILE

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