

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA (subject to change)</b>	11/23/2009	None	<b>AB-047</b>

**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	3.8	8.2	GHz	
1.2	PEAK POWER	J1-J2		800	WATTS	
1.3	PULSE WIDTH	J1-J2		40	μS	
1.4	DUTY	J1-J2		8	%	
1.5	AVG. POWER	J1-J2		64	WATTS	
1.6	CW POWER	J1-J2		64	WATTS	
1.7	HARMONICS IN	J1-J2		-10	dBc	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY	J1-J2	8.2	9.2	GHz	
2.2	PEAK POWER	J1-J2		10	WATTS	
2.3	PULSE WIDTH	J1-J2		40	μS	
2.4	DUTY	J1-J2		8	%	
2.5	AVG POWER	J1-J2		.8	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY	ALL PORTS	>9.2		GHz	
3.2	PEAK POWER	ALL PORTS		0.1	WATTS	
3.3	PULSE WIDTH	ALL PORTS	CW		μS	
3.4	DUTY	ALL PORTS	CW		%	
3.5	CW POWER	ALL PORTS		0.1	WATTS	
4	POWER SPECIFICATION					
4.1	MAX POWER, CW OR PULSED	J1-J3; J3-J4		1.0	WATTS	
5	INSERTION LOSS					
5.1			2.4		dB	
6	ISOLATION					
6.1	J1-J3			100	dB	
6.2	J1-J2; J1-J4			40	dB	
7	PHASE					NOT SPECIFIED

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8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE (Reflective)
8.2	INPUT & OUTPUT, SELECTED PORTS			1.8:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			2.0:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% Logic To 0.5dB		600	nS	
10.2	reserved					
10.3	SWITCHING RATE			125	kHz	
10.4	COMMAND LOGIC	RS-422				Balanced
10.5	VIDEO LEAKAGE	J3 PORT ONLY		0.5	V	
10.6	LOGIC TABLE					SEE DWG 3558
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-46	-54	VDC	
11.4	POSITIVE BIAS CURRENT			250	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 3558 BELOW
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GROUND MOBILE

