
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT SPECIFICATION DATA (subject to change)	11/9/2009	None	AB-032
(15H03288-01)					

This document describes the performance of a high power 2P2T switch. 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		2.7	2.9	GHz	
1.2	PEAK POWER			1666	WATTS	
1.3	PULSE WIDTH			40	μS	
1.4	DUTY			6	%	
1.5	AVERAGE POWER			100	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		2.9	3.5	GHz	
2.2	PEAK POWER			100	WATTS	
2.3	PULSE WIDTH			100	μS	
2.4	DUTY			2	%	
2.5	CW POWER			-	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>3.5		GHz	
3.2	PEAK POWER			0.1	WATTS	
3.3	PULSE WIDTH		CW		μS	
3.4	DUTY		CW		%	
3.5	CW POWER			0.1	WATTS	
4	OPERATING FREQUENCY		2.7	2.9	GHz	
5	INSERTION LOSS					
5.1				1.0	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		25		dB	
6.2	OUTPUT TO OUTPUT		25		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	SELECTED PORTS			1.4:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR (CONT.)					
8.2	PORTS NOT SELECTED					INFINITE (reflective)
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.2:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% TTL TO 0.5dB		1	μS	
10.2	SWITCHING RATE			50	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE					NOT SPECIFIED
10.4	LOGIC TABLE					SEE DWG 3275 (below)
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-66	-74	VDC	
11.4	POSITIVE BIAS CURRENT			1000	mA	
11.5	NEGATIVE BIAS CURRENT			10	mA	
NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.						
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					DEMM-9P
13	MECHANICAL					
13.1	WEIGHT			18	Oz.	
13.2	OUTLINE					SEE DWG 3275 (Below)
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-50	+70	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GROUND MOBILE



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