



Cage Code: 02WL0	Title: PRODUCT DATA (subject to change)	Date: 6/10/05	Rev: N/A	Model no: AB-096
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This document describes the performance of a high power DUAL 1P2T switch assembly. This is a cold switched design i. e; switched while RF is off. Proper bias levels per item no.11 must be applied when operating this device.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		1025	1095	MHz	
1.2	PEAK POWER			4000	WATTS	
1.3	PULSE WIDTH	Per Modes 1,5 and S		32	usec	
1.4	DUTY	Per Modes 1,5 and S		1.6	%	
1.5	AVERAGE POWER			64	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND	1095	2.0	GHz	
2.1	PEAK POWER			15	WATTS	
2.2	PULSE WIDTH			30	uSEC	
2.3	DUTY			2	%	
2.4	AVERAGE POWER			1.0	WATT	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>2.0	GHz	
3.2	PEAK OR CW POWER			0.1	WATT	
4	OPERATING FREQUENCY	TOTAL	1030	1090	MHz	
4.1	OPTIMIZED PERFORMANCE			1090	MHz	
5	INSERTION LOSS			0.8	dB	
6	ISOLATION					
		I/O or O/O	40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT	SELECTED PORT		1.50:1		WHEN TERMINATED WITH A 1.05:1 OR BETTER LOAD
8.1.1	INPUT	UN-SELECTED PORT				INFINITY (REFLECTIVE)



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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8.2	OUTPUT	SELECTED PORT		1.50:1		WHEN TERMINATED WITH A 1.05:1 OR BETTER LOAD
8.2.1	OUTPUT	OFF (UNSELECTED) PORT		1.80:1		WHEN TERMINATED WITH A 1.05:1 OR BETTER LOAD
8.4	VSWR	TERMINATION		1.80:1		
8.5	VSWR	SOURCE		2.5:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED			TBD		NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% LOGIC TO 0.5 dB RF SIGNAL		10	uS	
10.2	SWITCHING RATE	50% MAXIMUM DUTY		5	KHz	
10.3	COMMAND LOGIC	RS-422				
10.4	LOGIC TABLE	Parallel 3 bit word				See Dwg 5019
10.5	VIDEO LEAKAGE					NOT SPECIFIED
10.6	BUILT IN TEST	Paralell 1 bit word				See Dwg 5019
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.75	5.25	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-68	-74	VDC	
11.3	POSTIVE BIAS CURRENT			400	MA	
11.4	NEGATIVE BIAS CURRENT			40	MA	
12	CONNECTORS					
12.1	RF					SMA(F)
12.2	DC, LOGIC					D MINATURE, 15 PIN PER
13	MECHANICAL					
13.1	WEIGHT			26	OZ	
13.2	OUTLINE					SEE DWG 5019
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-40	+85	°C	
14.2	STORAGE TEMPERATURE		-40	+85	°C	
14.3	VIBRATION LEVEL					Airborne
14.4	ALTITUDE			60000	FT	
14.5	HERMETIC LEAK RATE			1x10 ^ 6		



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