

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT DATA (subject to change)	4/25/05	None	M25-013

This document describes the performance of a high power 1P2T 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		12.5	14.5	GHz	
1.2	PEAK POWER			250	WATTS	
1.3	PULSE WIDTH			200	nS	
1.4	DUTY			1	%	
1.5	AVG. POWER			2.5	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		14.5	15.5	GHz	
2.2	PEAK POWER			20	WATTS	
2.3	PULSE WIDTH			300	μS	
2.4	DUTY			50	%	
2.5	CW POWER			10	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>15.5		GHz	
3.2	PEAK POWER			0.03	WATTS	
3.3	PULSE WIDTH		CW		μS	
3.4	DUTY		CW		%	
3.5	CW POWER			0.03	WATTS	
4	OPERATING FREQUENCY		12.5	14.5	GHz	
5	INSERTION LOSS					
5.1				1.3	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		40		dB	
6.2	OUTPUT TO OUTPUT		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE (reflective)



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8	VSWR (CONT.)					
8.2	INPUT & OUTPUT, SELECTED PORTS			1.4:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.2:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	MEASURED AT INCIDENT POWER			0	WATTS	
10	SWITCHING					
10.1	SPEED	50% Logic To 0.5dB		0.5	μS	
10.2	SWITCHING RATE			100	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE					NOT SPECIFIED
10.5	LOGIC TABLE					SEE DWG 2013
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			300	mA	
11.5	NEGATIVE BIAS CURRENT			40	mA	
NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.						
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			4	Oz.	
13.2	OUTLINE					SEE DWG 2013
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+85	°C	
14.3	VIBRATION LEVEL					Gnd Moble



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