

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (subject to change)	03/28/2002	None	L22-014

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		2.0	2.5	GHz	
1.2	PEAK POWER			10	WATTS	
1.3	PULSE WIDTH			CW	μS	
1.4	DUTY			CW	%	
1.5	CW POWER			10	WATTS	
1.6	AVERAGE POWER			N/A	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		2.5	3.3	GHz	
2.2	PEAK POWER			1	WATTS	
2.3	PULSE WIDTH			CW	μS	
2.4	DUTY			CW	%	
2.5	CW POWER			1	WATTS	
2.6	AVERAGE POWER			N/A	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>3.3		GHz	
3.2	PEAK POWER			0.01	WATTS	
3.3	PULSE WIDTH			1	μS	
3.4	DUTY			0.01	%	
3.5	CW POWER			0.001	WATTS	
3.6	AVERAGE POWER			0.001	WATTS	
4	OPERATING FREQUENCY		2.2	2.3	GHz	
5	INSERTION LOSS			1.5	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		35		dB	
6.2	OUTPUT TO OUTPUT		35		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR			1.4:1		
8.1	PORTS NOT SELECTED					INFINITY
8.2	INPUT & OUTPUT, SELECTED PORTS			1.4:1		
8.3	TERMINATION			2.5:1		
8.4	SOURCE			1.2:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER				NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% LOGIC TO 0.5 dB OF RF		500	nS	
10.2	SWITCHING RATE			50	kHz	
10.3	COMMAND LOGIC	TTL				
10.4	LOGIC TABLE					SEE DWG 3502 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-26	-30	VDC	
11.3	POSITIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			60	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			5.5	Oz.	
13.2	OUTLINE					SEE DWG 3502 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-20	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+60	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT
15.0	Finish/Marking					Black paint, Mark ports only

