

	Cage Code:	Title:	Date:	Model no:
	02WLO	PRODUCT DATA (Subject to change)	03/6/06	H22-127

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 (section 11) must be applied to this switch under all operating conditions. This switch is absorptive at low power levels (section 8.2.1)

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		1	2	GHz	
1.2	PEAK POWER			1000	WATTS	
1.3	PULSE WIDTH		50	300	nS	
1.4	DUTY			4	%	
1.5	AVG POWER			40	WATTS	
1.6	CW POWER				WATTS	Not specified
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		2	2.6	GHz	
2.2	PEAK POWER			10	WATTS	
2.3	PULSE WIDTH		50	300	nS	
2.4	DUTY			4	%	
2.5	AVG POWER			0.4	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>2.6		GHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	μS	
3.4	DUTY			CW	%	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY		1	2	GHz	
5	INSERTION LOSS			1.0	dB	
6	ISOLATION					
6.1	I/O		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORT SELECTED			1.6:1		
8.2	PORT NOT SELECTED			1.8:1		
8.2.1	OFF TERMINATION POWER	PEAK POWER AVERAGE POWER		150 6	WATTS	
8.3	LOAD			2.0:1		
8.4	SOURCE			2.0:1		

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9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		40		dBc	
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		1	uS	
10.2	SWITCHING RATE			200	KHz	
10.3	VIDEO LEAKAGE			5	Vpp	Across 50 Ohms
10.4	COMMAND LOGIC	RS-422				120 Ohm Balanced logic
10.5	LOGIC TABLE					SEE DWG 3414
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.3	NEGATIVE BIAS VOLTAGE		-66	-74	VDC	
11.4	POSITIVE BIAS CURRENT 1			300	mA	
11.4	NEGATIVE BIAS CURRENT			30	mA	
11.5	NOTE : Voltage Protection – This unit does not have over-voltage or reverse polarity protection on any bias port.					
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			4	Oz	
13.2	OUTLINE					See Dwg 3414
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+50	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



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