

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT DATA (Subject to change)	12/06/01	N/A	H22-202

This document describes the performance of a high power 1P2T switch. This is a cold-switched design i.e.; switched while RF is off.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		2	4.0	GHz	
1.2	PEAK POWER	ABSOLUTE MAX.		2000	WATTS	
1.3	PULSE WIDTH			10	uS	
1.4	DUTY			4	%	
1.5	AVG POWER	ABSOLUTE MAX		80	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		4.0	4.5	GHz	
2.2	PEAK POWER			2	WATTS	
2.3	PULSE WIDTH			0.5	μS	
2.4	DUTY			5	%	
2.5	CW POWER			1	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>4.5		GHz	
3.2	PEAK POWER			.03	WATTS	
3.3	PULSE WIDTH		CW		μS	
3.4	DUTY		CW		%	
3.5	CW POWER			.03	WATTS	
4	OPERATING FREQUENCY		2.0	4.0	GHz	
5	INSERTION LOSS			1.2	dB	
6	ISOLATION		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			>20:1		INFINITY
8.3	LOAD			2.0:1		
8.4	SOURCE			1.15:1		

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9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED	TRANSMIT MODE			dBc	NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER		0	dBm	
10	SWITCHING					
10.1	SPEED	TO 0.50 dB		1.5	μS	
10.2	SWITCHING RATE			50	KHz	
10.3	VIDEO LEAKAGE				Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC	RS-422				CONTROL
10.5	LOGIC TABLE					SEE DWG 3414
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.80	5.20	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-48	-54	VDC	
11.3	POSITIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			4	mA	
11.5	NOTE 1: Power on sequence - To prevent possible damage to the switch, the + 5V should be applied first, then the - 50V.					
11.6	NOTE 2: Voltage Protection – This unit does not have over-voltage or reverse polarity protection on any bias port.					
12	CONNECTORS					
12.1	RF					SMA
12.3	DC, LOGIC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT			6	OZ.	
13.2	OUTLINE					SEE DWG 3414
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-2	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GROUND MOBILE



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