
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT DATA (subject to change)	03/6/06	None	M20-063

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		100	500	MHz	
1.2	PEAK POWER			200	WATTS	
1.3	PULSE WIDTH		50	300	nS	
1.4	DUTY			4	%	
1.5	AVG POWER			8	WATTS	
1.6	CW POWER				WATTS	Not specified
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		500	600	MHz	
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		>600		MHz	
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		100	500	MHz	
5	INSERTION LOSS			0.7	dB	
6	ISOLATION					
6.1	I/O		40		dB	
7	PHASE	MATCH/TRACK				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		200 8	WATTS	
8.3	LOAD			2.0:1		
8.4	SOURCE			2.0:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		40		dBc	
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		500	nS	
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 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.3	NEGATIVE BIAS VOLTAGE		-26	-32	VDC	
11.4	POSITIVE BIAS CURRENT 1			300	mA	
11.4	NEGATIVE BIAS CURRENT			100	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 below
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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