

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (subject to change)	6/7/06	None	M20-036

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 per section 11 must be applied before operating this switch.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		140	1000	MHz	
1.2	PEAK POWER	ABSOLUTE MAX.		50	WATTS	
1.3	PULSE WIDTH			0.5	μs	
1.4	DUTY			30	%	
1.5	AVG POWER	ABSOLUTE MAX		15	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		1000	1080	MHz	
2.2	PEAK POWER			10	WATTS	
2.3	PULSE WIDTH			10	μs	
2.4	DUTY			10	%	
2.5	AVG POWER			1	WATT	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>1080		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		140	1000	MHz	
5	INSERTION LOSS			0.7	dB	
6	ISOLATION					
6.1			40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORT SELECTED			1.71		
8.2	PORT NOT SELECTED			>20:1		INFINITY
8.3	LOAD			2.0:1		
8.4	SOURCE			1.15:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED	TRANSMIT MODE			dBc	Not Specified
10	SWITCHING					
10.1	SPEED	FROM 50% TTL TO 0.50DB of I.L.		100	ns	
10.1.1	DRIVER DELAY			40	ns	Pre-trigger TTL to subtract this from switching speed
10.2	SWITCHING RATE	10% DUTY		1.0	MHZ	
10.3	VIDEO LEAKAGE				Vpp	Not Specified
10.4	COMMAND LOGIC	TTL				
10.5	LOGIC TABLE					SEE Dwg 3218
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.80	5.20	VDC	
11.3	NEGATIVE BIAS VOLTAGE		-26	-32	VDC	
11.4	POSITIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			100	mA	
11.5	NOTE 1: SINGLE-ENDED TTL. CONTROL LINES SHOULD BE LESS THAN 4 FT, AND SHOULD BE SHIELDED. NOTE 2: NO REVERSE POLARITY PROTECTION IS PROVIDED ON THE POSITIVE RAIL. OVERVOLTAGE PROTECTION IS INCLUDED ON THE POSITIVE RAIL NOTE 3: REVERSE POLARITY AND OVERVOLTAGE PROTECTION IS PROVIDED ON THE NEGATIVE RAIL.					
12	CONNECTORS					
12.1	RF	INPUT & XMIT				SMAF
12.3	DC & Logic					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			4	Oz	
13.2	OUTLINE					See Dwg 3218
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-10	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+70	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT

