

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (subject to change)	2/6/04	None	M22-097

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		900	3000	MHz	
1.2	PEAK POWER			200	Watts	
1.3	PULSE WIDTH			10	uS	
1.4	DUTY			50	%	
1.5	CW POWER			100	Watts	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		3000	3350	MHz	
2.2	PEAK POWER			7.5	Watts	
2.3	PULSE WIDTH		CW		--	
2.4	DUTY		CW		--	
2.5	CW POWER			7.5	Watts	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>3350	MHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	--	
3.4	DUTY			CW	--	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY		900	3000	MHz	
5	INSERTION LOSS					
5.1				1.5	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR (CONT.)					
8.2	INPUT & OUTPUT, SELECTED PORTS			1.7:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.25:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	MEASURED AT INCIDENT POWER					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% TTL TO 0.5 dB RF		2	us	
10.2	SWITCHING RATE			20	kHz	
10.3	COMMAND LOGIC	TTL				
10.4	VIDEO LEAKAGE			25	Vpp	
10.4	LOGIC TABLE					SEE DWG 2215
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.4	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-47	-53	VDC	
11.4	POSITIVE BIAS CURRENT			300	mA	
11.5	NEGATIVE BIAS CURRENT			60	mA	
11.6	VOLTAGE PROTECTION					THIS UNIT DOES NOT HAVE OVERVOLTAGE OR REVERSE POLARITY PROTECTION ON ANY BIAS PORT
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT			0.5	Lbs.	
13.2	OUTLINE					SEE DWG 2215
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					Airborne subsonic
15	ESS SCREENING					48 Hrs B/I



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