
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	7/16/01	None	<b>M44-005</b>

**This document describes the performance of a high power 1P4T switch. This is a COLD switched design i. e; switched while RF is off. Proper bias levels per item no.11 must be applied when operating this device.**

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		8.0	11.0	GHz	
1.2	PEAK POWER			100	Watts	
1.3	PULSE WIDTH		-	CW		
1.4	DUTY			100	%	
1.5	CW POWER			100	Watts	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		11.0	12.0	GHz	
2.2	PEAK POWER			10	Watts	
2.3	PULSE WIDTH		-	CW		
2.4	DUTY			100	%	
2.5	AVERAGE POWER			10	Watts	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>12.0	GHz	
3.2	PEAK POWER			0.1	Watt	
3.3	PULSE WIDTH			CW	μS	
3.4	DUTY			CW	%	
3.5	AVERAGE			.1	Watts	
4	OPERATING FREQUENCY		8.0	11.0	GHz	
5	INSERTION LOSS			2	dB	
6	ISOLATION					
6.1		Input To Output	45		dB	
7	PHASE	MATCH/TRACK				NOT SPECIFIED
8	VSWR					
8.1	INPUT			1.25:1		
8.2	OUTPUT			1.25:1		
8.3	TERMINATION			2.0:1		
8.4	PORTS NOT SELECTED			∞		INFINITY
8.5	SOURCE			1.4:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
10	SWITCHING					
10.1	SWITCHING SPEED	TO 0.5 dB OF I.L.		400	nS	
10.2	SWITCHING RATE			50	KHz	
10.3	VIDEO LEAKAGE				Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE:	RS-422, BALANCED				
10.5	LOGIC TABLE					SEE OUTLINE DWG 2656
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.5	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-26	-32	VDC	
11.3	POSITIVE BIAS CURRENT			450	mA	
11.4	NEGATIVE BIAS CURRENT			60	mA	
11.5	VOLTAGE PROTECTION					THIS UNIT DOES NOT HAVE OVERVOLTAGE OR REVERSE POLARITY PROTECTION ON ANY BIAS PORT
12	CONNECTORS					
12.1	RF					SMAF
12.2	DC					DAM-9
13	MECHANICAL					
13.1	WEIGHT			12	oz.	
13.2	OUTLINE				inches	SEE DWG 2656
14	ENVIRONMENTAL	WEATHERPROOF				
14.1	OPERATING TEMPERATURE		-40	+70	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					Airborne
14.4	DEVICE SCREENING	LEVEL 2				QP-121 LEVEL 2



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