

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT DATA (subject to change)	1/12/05	None	M14-007

This document describes the performance of a high power 1P1T 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. This device must be properly heat sunk to insure reliable operation.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		7.8	12.2	GHz	
1.2	PEAK POWER			300	WATTS	
1.3	PULSE WIDTH			4	uS	
1.4	DUTY			5	%	
1.5	AVG POWER			15	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		12.2	12.8	GHz	
2.2	PEAK POWER			1	WATTS	
2.3	PULSE WIDTH			4	μSEC	
2.4	DUTY			5	%	
2.5	AVG POWER			0.05	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>12.8	GHz	
3.2	PEAK POWER			0.10	WATTS	
3.3	PULSE WIDTH			CW	μSEC	
3.4	DUTY			CW	%	
3.5	AVG POWER			0.10	WATTS	
4	OPERATING FREQUENCY		8	12	GHz	
5	INSERTION LOSS			1.4	dB	
6	ISOLATION	Input/Output	40		dB	
7	PHASE					
7.1	ABSOLUTE MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT & OUTPUT	SELECTED PORTS		1.6:1		
8.2	OUTPUT	PORTS NOT SELECTED				INFINITY (reflective)
8.3	SOURCE AND TERMINATION			1.4:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	RESERVED					
10	SWITCHING					
10.1	TRANSITION TIME	TO 0.5 dB		150	nSEC	
10.2	SWITCHING RATE			400	kHz	
10.3	VIDEO LEAKAGE				Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE	TTL				
10.5	LOGIC TABLE					SEE DWG 03H02258-01 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE	NOMINAL	4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-24	-32	VDC	
11.3	POSTIVE BIAS CURRENT	SELECTED ARM		+200	mA	
11.4	NEGATIVE BIAS CURRENT	NOMINAL PER CHANNEL		-60	mA	
12	CONNECTORS & INTERFACE					
12.1	RF					SMA Female
12.2	POWER/LOGIC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT			4	OZ	
13.2	OUTLINE					SEE DWG 03H02258-03 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+60	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORTATION
14.4	SCREENING					COMMERCIAL, QP-121, LVL 1



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