

	Cage Code:	Title:	Date:	Rev:	Modelt no:
	02WLO	PRODUCT DATA (subject to change)	10/19/99	N/A	VM40-087

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		50	310	MHz	
1.2	PEAK POWER			1000	Watts	
1.3	PULSE WIDTH			100	mS	
1.4	DUTY			10	%	
1.5	AVE. POWER			100	Watts	
1.6	CW POWER				N/A	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		310	350	MHz	
2.2	PEAK POWER			100	Watts	
2.3	PULSE WIDTH			100	mS	
2.4	DUTY			10	%	
2.5	AVE. POWER			10	Watts	
2.6	CW POWER				N/A	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>350	MHz	
3.2	PEAK POWER			1	Watt	
3.3	PULSE WIDTH		CW		Usec	
3.4	DUTY		CW		%	
3.5	AVE. POWER			1	Watt	
3.6	CW POWER				N/A	
4	OPERATING FREQUENCY		50	310	MHz	
5	INSERTION LOSS			0.40	dB	
6	ISOLATION					
6.1		Input To Output	40		dB	
6.2		Output To Output	40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT/OUTPUT, SELECTED PORTS			1.50:1		



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8.2	TERMINATION	1000W		2.0:1		
8.3	UNSELECTED PORTS			∞		INFINITY
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED			-40	dBc	
9.2		MEASURED AT INCIDENT POWER		0	dBm	
10	SWITCHING					
10.1	SPEED	50% TTL to 90% RF Signal		30	μS	
10.2	SWITCHING RATE			2	KHz	
10.3	VIDEO LEAKAGE		---	30	Vpp	
10.4	COMMAND LOGIC	RS-422				
10.5	LOGIC TABLE					SEE DWG 3062 below
11	D.C. POWER					
11.1	POSITIVE 1 BIAS VOLTAGE		4.75	5.25	VDC	
11.2	POSITIVE 2 BIAS VOLTAGE		26	30	VDC	
11.3	POSITIVE 1 BIAS CURRENT			1000	mA	
11.4	POSITIVE 2 BIAS CURRENT			1200	mA	
11.5	POWER ON SEQUENCE					+5V First, then +28V
11.6	VOLTAGE PROTECTION					This unit does not have over voltage or reverse polarity protection on any bias port.
12	CONNECTORS					
12.1	RF					NF
12.2	DC					DBMM-25
13	MECHANICAL					
13.1	WEIGHT			6	lbs.	
13.2	OUTLINE					SEE DWG 3062 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					Ground Transport
14.4	DEVICE SCENING	LEVEL 2				QP-121 LEVEL 2

