

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	3/27/00	N/A	<b>VH40-103</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		40	175	MHz	
1.2	PEAK POWER			4000	Watts	
1.3	PULSE WIDTH		-	50	mS	
1.4	DUTY			7	%	
1.5	CW POWER			300	Watts	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		175	250	MHz	
2.2	PEAK POWER			10	Watts	
2.3	PULSE WIDTH			100	mS	
2.4	DUTY			10	%	
2.5	CW POWER			1	Watts	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>250	MHz	
3.2	PEAK POWER			1	Watt	
3.3	PULSE WIDTH				CW	
3.4	DUTY				CW	
3.5	CW POWER			1	Watt	
4	OPERATING FREQUENCY		40	175	MHz	
5	INSERTION LOSS			0.7	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			1.50:1		
8.2	OUTPUT			1.50:1		
8.3	TERMINATION			1.80:1		
8.4	PORTS NOT SELECTED			∞		INFINITY



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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
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		50	μS	
10.2	SWITCHING RATE			1.5	KHz	
10.3	VIDEO LEAKAGE				Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC	RS-422				
10.5	LOGIC TABLE					SEE DWG 3221 below
11	D.C. POWER					
11.1	POSITIVE 1 BIAS VOLTAGE		+7.25	+7.75	VDC	
11.2	POSITIVE 2 BIAS VOLTAGE		26	30	VDC	
11.3	POSITIVE 1 BIAS CURRENT			1200	mA	
11.4	POSITIVE 2 BIAS CURRENT			1200	mA	
11.5	POWER ON SEQUENCE					+7.5V FIRST, THEN +28V
11.6	VOLTAGE PROTECTION					THIS UNIT DOES NOT HAVE OVERVOLTAGE OR REVERSE POLARITY PROTECTION ON ANY BIAS PORT
12	CONNECTORS					
12.1	RF					NF
12.2	DC					DAM-25
13	MECHANICAL					
13.1	WEIGHT			6	lbs.	
13.2	OUTLINE	MAX ENV. 6X9X4.2"				DWG 3221 below
14	ENVIRONMENTAL	SHELTERED				
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL	GND TRANSPORT				Ground Transport
14.4	DEVICE SCREENING	LEVEL 2				QP-121 LEVEL 2

