
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT DATA (subject to change)	3/14/01	N/A	VH20-144

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 per section 11 must be applied before operating this switch.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		30	100	MHz	
1.2	PEAK POWER	ABSOLUTE MAX.		1000	WATTS	
1.3	PULSE WIDTH			1	mS	
1.4	DUTY		CW	-	%	
1.5	CW POWER	ABSOLUTE MAX		800	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		100	160	MHz	
2.2	PEAK POWER			100	WATTS	
2.3	PULSE WIDTH		CW		μS	
2.4	DUTY		CW		%	
2.5	CW POWER			100	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>160		MHz	
3.2	PEAK POWER			38	dBm	
3.3	PULSE WIDTH			65	μS	
3.4	DUTY			10	%	
3.5	CW POWER			28	dBm	
4	OPERATING FREQUENCY		30	100	MHz	
5	INSERTION LOSS			0.30	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	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORT SELECTED			1.5:1		
8.2	PORT NOT SELECTED					INFINITE
8.3	LOAD			2.0:1		

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9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER				NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		30	μS	
10.2	SWITCHING RATE			2	kHz	
10.3	VIDEO LEAKAGE			40	Vpp	
10.4	COMMAND LOGIC	RS-422				
10.5	LOGIC TABLE					SEE DWG 2611 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		7.25	8.00	VDC	
11.2	NEGATIVE VOLTAGE BIAS			-400	VDC	
11.3	POSITIVE BIAS CURRENT			2000	mA	
11.4	NEGATIVE BIAS CURRENT			30	mA	
11.5	NOTE 1: Power on sequence - To prevent damage to the switch, the +7.5V should be applied first, then the -400V.					
11.6	NOTE 2: Voltage Protection – This unit does not have over-voltage or reverse polarity protection on any bias port.					
12	CONNECTORS					
12.1	RF	INPUT & XMIT				NF
12.3	DC					DCM-37
13	MECHANICAL					
13.1	WEIGHT			4.3	LBS	
13.2	OUTLINE					SEE DWG 2611 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



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