Cage Code:	Title:	Date:	Rev:	Model no:
02WL0	PRODUCT DATA	09/15/05	N/A	VH20-212
	(subject to change)			

This document describes the performance of a high power 1P2T/TR 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		20	115	MHz	
1.2	PEAK POWER	ABSOLUTE MAX. AT TRANSMIT INPUT, INCLUDING LOAD EFFECTS		1600	WATTS	SEE 8.3 BELOW
1.4	DUTY		CW	-	%	
1.6	RECEIVE POWER		CW	50	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		115	140	MHz	
2.2	PEAK POWER			50	WATTS	
2.3	PULSE WIDTH		CW		μS	
2.4	DUTY		CW		%	
2.5	CW POWER			50	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>140		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		20	115	MHz	
5	INSERTION LOSS	TRANSMIT		0.3	dB	
5.1		RECEIVE		1.0	dB	
6	ISOLATION					
6.1	TRANSMIT		60		dB	
6.2	RECEIVE		50		dB	
7	PHASE	MATCH/TRACK				NOT SPECIFIED
8	VSWR					
8.1	PORT SELECTED			1.5:1		
8.2	PORT NOT SELECTED			>20:1		INFINITY
8.3	LOAD			2.0:1		
8.4	SOURCE			1.15:1		

Federal Cage Code 02WLO

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COMTECH PST Hill Inguneering Dicking	02WL0	PRODUCT DATA	09/15/05	N/A	VH20-212
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ITEM	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
NO 9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED			-70	dBc	
9.2		MEASURED AT INCIDENT POWER		0	dBm	
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		25	μS	
10.2	SWITCHING RATE			2	KHz	
10.3	VIDEO LEAKAGE			20	Vpp	DC to 3 GHz
10.4	COMMAND LOGIC	RS-422				CONTROL AND BIT
10.5	LOGIC TABLE					SEE DWG BELOW
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.2	POSITIVE BIAS VOLTAGE 2		26	30	VDC	
11.3	POSITIVE BIAS CURRENT 1			1	A	
11.4	POSITIVE BIAS CURRENT 2			2	A	
11.5	NOTE : Voltage Protection – Th	is unit does not have ov	ver-voltag	e or revers	se polarity pr	otection on any bias port.
12	CONNECTORS					
12.1	RF	INPUT & XMIT				SC (F)
12.2	RF	RCV				SMA (F)
12.3	DC					25 pin D submin
13	MECHANICAL					
13.1	WEIGHT			5.3	LBS	
13.2	OUTLINE					SEE DWG BELOW
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



