	Cage Code:	Title:	Date:	Rev:	Model no:
HILL INDIDENTING DECISION	02WL0	PRODUCT DATA	09/15/05	N/A	VH20-106
		(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. Transmit band (high power) is 20-100 MHz; Receive band (low power) is 20-512 MHz

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		20	512	MHz	
1.2	TRANSMIT POWER, CW	20-100 MHz		1400	WATTS	
1.3	RECEIVE POWER, CW	20-512 MHz		10	WATTS	
1.6	TRANSMIT INTO OPEN/SHORT	ALL PHASE ANGLES	CW	125	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		500	540	MHz	
2.2	PEAK POWER			5	WATTS	
2.3	PULSE WIDTH		CW		μS	
2.4	DUTY		CW		%	
2.5	CW POWER			5	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>540		MHz	
3.2	PEAK POWER			30	dBm	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY	TRANSMIT	20	100	MHz	
4.1	OPERATING FREQUENCY	RECEIVE	20	512	MHz	
5	INSERTION LOSS	TRANSMIT		0.50	dB	
5.1		RECEIVE				
6	ISOLATION					
6.1	TRANSMIT		50		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			2.5:1		
8.4	SOURCE			1.15:1		
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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	
		INCIDENT FOWER				
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		30	μS	
10.2	SWITCHING RATE			2	KHz	
10.3	VIDEO LEAKAGE			40	Vpp	DC to 1 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		7.3	7.7	VDC	
11.3	POSITIVE BIAS VOLTAGE 3		26	30	VDC	
11.4	POSITIVE BIAS CURRENT 1			1.2	А	
11.5	POSITIVE BIAS CURRENT 2			1.0	Α	
11.6	POSITIVE BIAS CURRENT 3			1.0	А	
11.7	NOTE : Voltage Protection – Th	nis unit does not have ov	/er-voltag	e or revers	se polarity pr	otection on any bias port.
12	CONNECTORS					
12.1	RF					NF
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
	1					

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