	Cage Code:	Title	Date:	Rev:	Model no:
Hill Engineering Division	02WLO	<b>PRODUCT DATA</b>	8/3/04	None	H22-097
		(subject to change)			

## 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 levels must be applied when operating this device.

ITEM	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
NO	POWER SPECIFICATION	IN BAND				-
1		IN BAND			011	
1.1	FREQUENCY		2.0	4.0	GHz	
1.2	PEAK POWER	At input connector		1000	WATTS	Absolute max, including reflections
1.3	PULSE WIDTH			42	μS	
1.4	DUTY			15	%	
1.5	AVG / CW POWER			150	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND A				
2.1	FREQUENCY		4.0	6.0	GHz	
2.2	PEAK POWER			1000	WATTS	
2.3	PULSE WIDTH			42	μS	
2.4	DUTY			15	%	
2.5	CW POWER			150	WATTS	
3	POWER SPECIFICATIONS	GUARD BAND B				
3.1	FREQUENCY		6.0	8.0	GHz	
3.2	PEAK POWER			20	WATTS	
3.3	PULSE WIDTH			0.5	μS	
3.4	DUTY			5	%	
3.5	CW POWER			1	WATTS	
4	POWER SPECIFICATIONS	OUT OF BAND				
4.1	FREQUENCY		>8.0		GHz	
4.2	PEAK POWER			0.03	WATTS	
4.3	PULSE WIDTH		CW		μS	
4.4	DUTY		CW		%	
4.5	CW POWER			0.03	WATTS	
5	OPERATING FREQUENCY		2.0	4.0	GHz	
6	INSERTION LOSS					
6.1				2.1	dB	

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
7	ISOLATION					
7.1	INPUT TO OUTPUT		70		dB	
7.2	OUTPUT TO OUTPUT		70		dB	
8	PHASE					NOT SPECIFIED
9	VSWR					
9.1	PORTS NOT SELECTED					INFINITE
9.2	INPUT & OUTPUT, SELECTED PORTS			1.4:1		
9.3	LOAD			2.0:1		
9.4	SOURCE			1.2:1		
10	HARMONICS & SPURS					
10.1	INTERNALLY GENERATED			-60	dBc	
10.2	MEASURED AT INCIDENT POWER			0	dBm	
11	SWITCHING					
11.1	SPEED	50% TTL TO 0.5dB		3	μS	Microseconds
11.2	SWITCHING RATE			50	kHz	
11.3	COMMAND LOGIC	RS-422				
11.4	VIDEO LEAKAGE		2	5	V р-р	
11.5	LOGIC TABLE					SEE DWG 3859 below
12	D.C. POWER					
12.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
12.2	NEGATIVE BIAS VOLTAGE		-66	-74	VDC	
12.4	POSITIVE BIAS CURRENT			300	mA	
12.5	NEGATIVE BIAS CURRENT			50	mA	
	NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.					
13	CONNECTORS					
13.1	RF					NF
13.3	DC					SOLDER PINS
14	MECHANICAL					
14.1	WEIGHT			14	Oz.	
14.2	OUTLINE					SEE DWG 3859 below
15	ENVIRONMENTAL					
15.1	OPERATING TEMPERATURE		-0	+70	°C	
15.2	STORAGE TEMPERATURE		-55	+85	°C	
15.3	VIBRATION LEVEL					AIRBORNE SUBSONIC

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