	Cage Code:	Title:	Date:	Rev:	Model no:
Hill Engineering Division	02WL0	PRODUCT DATA	6/3/03	N/A	UM20-168
Thin Engineering Division		(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 per section 11 must be applied before operating this switch.

ITE	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
M						
NO 1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY	114 5/ 1145	150	1000	MHz	
1.2	PEAK POWER	ABSOLUTE MAX.	100	500	WATTS	
1.3	PULSE WIDTH		CW		mS	
1.4	DUTY		CW		%	
1.5	CW POWER	ABSOLUTE MAX		500	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND			-	
2.1	FREQUENCY		1000	1090	MHz	
2.2	PEAK POWER			10	WATTS	
2.3	PULSE WIDTH		CW		μS	
2.4	DUTY		CW		%	
2.5	CW POWER			10	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>1090		MHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	μS	
3.4	DUTY			CW	%	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY		150	1000	MHz	
5	INSERTION LOSS					
5.1				1.0	dB	
6	ISOLATION					
6.1			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			>20:1		INFINITY
8.3	LOAD			2.5:1		

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COMTECH PST	02WL0	PRODUCT DATA	6/3/03	N/A	UM20-168
Hill Engineering Division		(subject to change)			

17514	2111212222	0.01151510110			1	
ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED			-50	dBc	
9.2		MEASURED AT INCIDENT POWER		0	dBm	
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		30	μS	
10.2	SWITCHING RATE			1	KHz	
10.3	VIDEO LEAKAGE			20	Vpp	MEASURED INTO 50 OHMS
10.4	COMMAND LOGIC	RS-422				CONTROL AND BIT
10.5	LOGIC TABLE					SEE DWG 3454 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.2	POSITIVE BIAS VOLTAGE 2		26	32	VDC	
11.3	POSITIVE BIAS CURRENT 1			1.0	Α	
11.4	POSITIVE BIAS CURRENT 2			0.5	А	
11.5	NOTE 1: Power on sequence - T	o prevent possible dam	age to the	switch, the	e + 5V shou	lld be applied first, then the +28V.
11.6	NOTE 2: Voltage Protection – Th	nis unit does not have ov	/er-voltag	e or revers	e polarity pr	otection on any bias port.
12	CONNECTORS					
12.1	RF					NF
12.2	DC					DCM-25
13	MECHANICAL					
13.1	WEIGHT			5.5	LBS	
13.2	OUTLINE					SEE DWG 3454 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-25	+70	°C	
14.2	STORAGE TEMPERATURE		-40	+70	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



