OMTECH PST	Cage Code:	Title:	Date:	Rev:	Model no:	
Hill Engineering Division	02WLO	PRODUCT DATA	10/22/99	N/A	UH30-021	
		(subject to change)				

This document describes the performance of a high power 1P3T 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
INO						
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		100	500	MHz	
1.2	PEAK POWER			2000	WATTS	
1.3	PULSE WIDTH			10	μS	
1.4	DUTY			6	%	
1.5	AVG POWER			120	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		500	550	MHz	
2.2	PEAK POWER			100	WATTS	
2.3	PULSE WIDTH		CW		μS	
2.4	DUTY		CW		%	
2.5	AVG POWER			100	WATTS	
2.6	CW POWER			N/A	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>550		MHz	
3.2	PEAK POWER			38	dBm	
3.3	PULSE WIDTH			2	μS	
3.4	DUTY			6	%	
3.5	AVG POWER			28	dBm	
3.6	CW POWER			N/A	WATTS	
4	OPERATING FREQUENCY		150	450	MHz	
5	INSERTION LOSS			0.50	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		48		dB	
6.2	OUTPUT TO OUTPUT		48		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED

COMTECH PST	Cage Code:	Title:	Date:	Rev:	Model no:
Hill Engineering Division	02WLO	PRODUCT DATA	10/22/99	N/A	UH30-021
		(subject to change)			

ITEM	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
NO		CONDITIONS	IVIIIN	IVIAA	UNITS	COMMENTS
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE
8.2	LOAD			2.0:1		
8.3	INPUT			1.5:1		
8.4	OUTPUT			1.5:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	MEASURED AT INCIDENT POWER					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% TTL TO 90%		8	μS	
10.2	SWITCHING RATE	RF		2	kHz	
	VIDEO LEAKAGE			2	KHZ	NOT ODEOLEIED
10.3		<del></del> -				NOT SPECIFIED
10.4	COMMAND LOGIC	TTL				
10.5	LOGIC TABLE					SEE DWG 2437 below
11	D.C. POWER					
11.1	POSITIVE 1 BIAS VOLTAGE		4.8	5.5	VDC	
11.2	POSITIVE 2 BIAS VOLTAGE		26	30	VDC	
11.3	NEGATIVE BIAS VOLTAGE					DEVELOPED INTERNALLY
11.4	POSITIVE 1 BIAS CURRENT			1000	mA	
11.5	POSITIVE 2 BIAS CURRENT			2000	mA	
11.6	NEGATIVE BIAS CURRENT					N/A
11.7	POWER ON SEQUENCE: APP	LY +5V FIRST, THEN +	-28V	•		
11.8	THIS UNIT DOES NOT HAVE O	OVER-VOLTAGE OR RI	EVERSE	POLARIT	TY PROTEC	CTION ON ANY BIAS PORT
12	CONNECTORS					
12.1	RF					NF
12.2	DC					DAM-37
13	MECHANICAL					
13.1	WEIGHT			5.5	LBS	
13.2	OUTLINE					SEE DWG 2437 below

COMTECH PST	Cage Code:	Title:	Date:	Rev:	Model no:
Hill Engineering Division	02WLO	PRODUCT DATA	10/22/99	N/A	UH30-021
		(subject to change)			

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-20	+60	°C	
14.2	STORAGE TEMPERATURE		-40	+75	°C	
14.3	VIBRATION LEVEL					AIRBORNE INHABITED, SUBSONIC
14.4	DEVICE SCREENING	LEVEL 2				QP-121 LEVEL 2

