

	Cage Code:	Title:	Date:	Rev:	Model No.
	02WL0	PRODUCT DATA (Subject to change)	09/25/01	N/A	H22-200

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 NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		1	2	GHz	
1.2	PEAK POWER			2000	WATTS	
1.3	PULSE WIDTH			10	μs	
1.4	DUTY			4	%	
1.5	AVG. POWER			80	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		2	2.5	GHz	
2.2	PEAK POWER			20	WATTS	
2.3	PULSE WIDTH			0.5	μs	
2.4	DUTY			5	%	
2.5	CW POWER			1	WATT	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>2.5		GHz	
3.2	PEAK POWER			0.03	WATTS	
3.3	PULSE WIDTH		CW		μs	
3.4	DUTY		CW		%	
3.5	CW POWER			0.03	WATTS	
4	OPERATING FREQUENCY		1	2	GHz	
5	INSERTION LOSS					
5.1				1.0	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		40		dB	
6.2	OUTPUT TO OUTPUT		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE



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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR (CONT.)					
8.2	INPUT & OUTPUT, SELECTED PORTS			1.4:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.2:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	MEASURED AT INCIDENT POWER			0	WATTS	
10	SWITCHING					
10.1	SPEED	50% Logic To 0.5dB		1.5	µs	
10.2	SWITCHING RATE			50	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE					NOT SPECIFIED
10.5	LOGIC TABLE					SEE DWG 3218
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-48	-54	VDC	
11.4	POSITIVE BIAS CURRENT			300	mA	
11.5	NEGATIVE BIAS CURRENT			40	mA	
NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.						
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			6	Oz.	
13.2	OUTLINE					SEE DWG 3218
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GROUND MOBILE



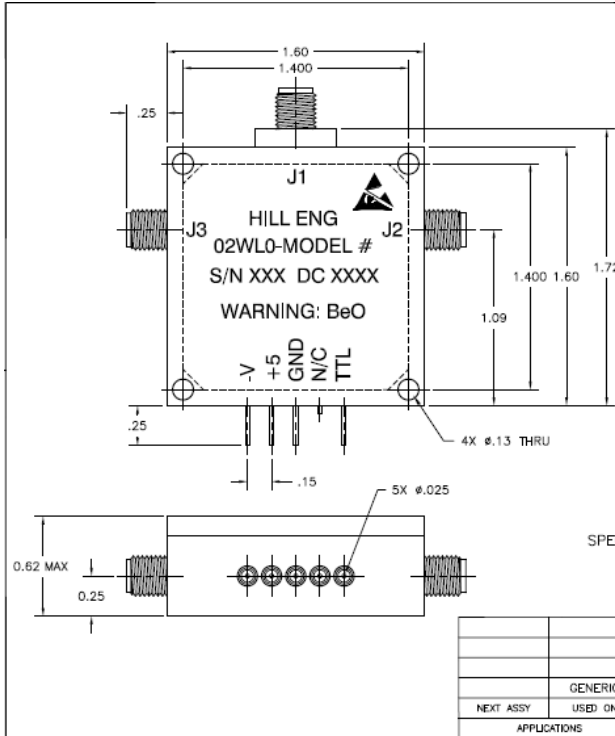
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE DRN #977	7/14/2000	JCH
A	REVISED PER EDN #3363 (hnb)	9/20/04	SPL

LOGIC TABLE	
OUTPUT	TTL
J1-J2	0
J1-J3	1

- NOTES:
- FINISH
 - PAINT PER PROCEEDURE MEI-105.
 - PRIMER: ZRC ZINC PRIMER HILL ENGINEERING P/N 172-0003
 - PAINT: FLAT BLACK EPOXY ENAMEL HILL ENGINEERING P/N 172-0002
 - MARKING
 - MARK PER PROCEEDURE MEI-147.
 - MARKING: .09" HIGH BLACK CHARACTERS
 - LABEL: METALIZED POLYESTER SHEET P/N 127-0010.
 - DATECODE FORMAT SHALL BE (YYWK) EXAMPLE; 0445.
 - V IS A GENERIC TERM. REFER TO PRODUCT SPEC. LISTED IN JOB FOLDER FOR ACTUAL NEG. VOLTAGE VALUE AND MARK ACCORDINGLY. DO NOT MARK "-V."

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE	APPROVALS	DATE	COMTECH PST Hill Engineering Division
FRACTIONS: DECIMALS: ANGLES: SURFACE TREATMENT: 25/100 1/100 1/100 200 ± .005 45° REMOVE ALL BURRS FROM PARTS	DRAWN BY: DE BARKER	7/12/2000	
MATERIAL: ALUMINUM	DESIGNED BY: JC HILL	7/14/2000	
FINISH: GENERIC	MANUFACTURED BY: JA WARD	7/14/2000	
NEXT ASSY USED ON:	JC HILL	7/14/2000	
APPLICATIONS:	CUSTOMER APPROVALS:		DRAWING TITLE: OUTLINE, 1P2T TTL SWITCH SIZE: B ONE OFFICE DRAWING NO.: 3218 SCALE: 2/1 FRAME: 3218- SHEET 1 OF 1