

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	1/2/03	None	<b>M22-082</b>

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 per item no. 11 must be applied when operating this device. This device must be properly heat sunk to insure reliable operation.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		2.0	4.0	GHz	
1.2	PEAK POWER			300	WATTS	
1.3	PULSE WIDTH			10	μSEC	
1.4	DUTY			13	%	
1.5	AVG POWER			40	WATTS	
1.6	CW POWER			40	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		4.0	4.5	GHz	
2.2	PEAK POWER			5	WATTS	
2.3	PULSE WIDTH			10	μSEC	
2.4	DUTY			15	%	
2.5	AVG or CW POWER			0.75	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>4.5	GHz	
3.2	PEAK POWER			0.10	WATTS	
3.3	PULSE WIDTH			CW	μSEC	
3.4	DUTY			CW	%	
3.5	AVG or CW POWER			0.10	WATTS	
4	OPERATING FREQUENCY		2	4	GHz	
5	INSERTION LOSS			0.75	dB	
6	ISOLATION	Input/Output	50		dB	
6.1		Output/Output	50		dB	
7	PHASE					
7.1	ABSOLUTE MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT & OUTPUT	SELECTED PORTS		1.8:1		
8.2	OUTPUT	PORTS NOT SELECTED				INFINITY
8.3	SOURCE AND TERMINATION			1.4:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	RESERVED					
10	SWITCHING					
10.1	TRANSITION TIME	10% FALLING EDGE OF OFF GOING RF PATH TO 90% OF RISING EDGE OF ON GOING RF PATH		150	nSEC	
10.2	SWITCHING RATE			500	kHz	
10.3	VIDEO LEAKAGE				Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE	TTL				
10.5	LOGIC TABLE					SEE OUTLINE DWG 3502
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE	NOMINAL	4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-26	-32	VDC	
11.3	POSTIVE BIAS CURRENT	SELECTED ARM		+200	mA	
11.4	NEGATIVE BIAS CURRENT	NOMINAL PER CHANNEL		-60	mA	
12	CONNECTORS & INTERFACE					
12.1	RF					SMA Female
12.2	POWER/LOGIC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT			5	OZ	
13.2	OUTLINE					SEE DWG 3502
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+60	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORTATION
14.4	SCREENING					COMMERCIAL, QP-121, LVL 1



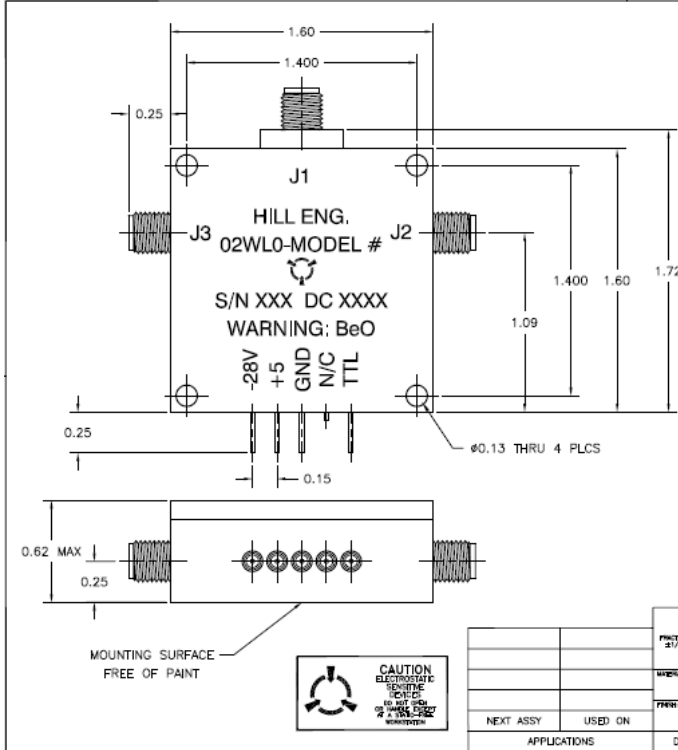
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(subject to change)

Date: 1/2/03

Rev: None

Model no: M22-082



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE PER EDN #1588	4/25/02	SPL
A	REVISED PER EDN #2920 (4b)	9/20/04	SPL

- NOTES:
- FINISH
    - PAINT PER PROCEDURE MEI-105.
    - PRIMER: ZRC ZINC PRIMER HILL P/N 172-0003
    - PAINT: FLAT BLACK EPOXY ENAMEL HILL P/N 172-0002
  - MARKING
    - MARK PER PROCEDURE MEI-147.
    - MARKING: 0.09" HIGH BLACK CHARACTERS
    - LABEL: TEMPORARY, REMOVABLE.
  - DATECODE FORMAT SHALL BE (YYWK)  
EXAMPLE: 0220.

LOGIC TABLE

OUTPUT	TTL
J1-J2	0
J1-J3	1

MIL-STD-883C (METHOD 2000) (ELECTROSTATIC DISCHARGE TEST)				APPROVALS		DATE
FUNCTION	DETAILS	APPROVED	SURFACE	DESIGN BY	DATE	4/25/02
2178	02 WLO	2070	47	DESIGNED BY		
				DESIGNED	SIP LEROUX	4/25/02
				DESIGNED BY	JA ALLEN	5/1/02
				DESIGNED	JC HILL	5/3/02
				CUSTOMER APPROVALS		
NEXT ASSY	USED ON					
APPLICATIONS	DO NOT SCALE DRAWING					



OUTLINE, 1P2T  
TTL LOGIC

SIZE	ONE CODE	DRAWING NO.	REV
B	02WLO	3502	A

