
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	PRODUCT DATA (subject to change)	8/30/02	None	M22-052

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		2000	4000	MHz	
1.2	PEAK POWER			100	WATTS	
1.3	PULSE WIDTH			TBD	μSEC	
1.4	DUTY			10	%	
1.5	AVG POWER			10	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		4000	4500	MHz	
2.2	PEAK POWER			5	WATTS	
2.3	PULSE WIDTH			TBD	μSEC	
2.4	DUTY			10	%	
2.5	AVG POWER			0.5	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>4500	MHz	
3.2	PEAK POWER			0.10	WATTS	
3.3	PULSE WIDTH			CW	μSEC	
3.4	DUTY			CW	%	
3.5	AVG POWER			0.10	WATTS	
4	OPERATING FREQUENCY		2000	4000	MHz	
5	INSERTION LOSS			1.2	dB	
6	ISOLATION					
6.1		INPUT TO OUTPUT	40		dB	
7	PHASE					
7.1	ABSOLUTE MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT & OUTPUT	SELECTED PORTS		1.6:1		
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	IP3					Not Specified
10	SWITCHING					
10.1	SPEED	50% TTL TO 90% RF		0.5	μSEC	
10.2	SWITCHING RATE			10	kHz	
10.3	VIDEO LEAKAGE				Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE	TTL				
10.5	LOGIC TABLE					SEE DWG 03H02194-01 below
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		+150	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			4	OZ	
13.2	OUTLINE					SEE DWG 03H02194-01 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-40	+60	°C	
14.2	STORAGE TEMPERATURE		-40	+60	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORTATION
14.4	SCREENING					COMMERCIAL, QP-121, LVL 1



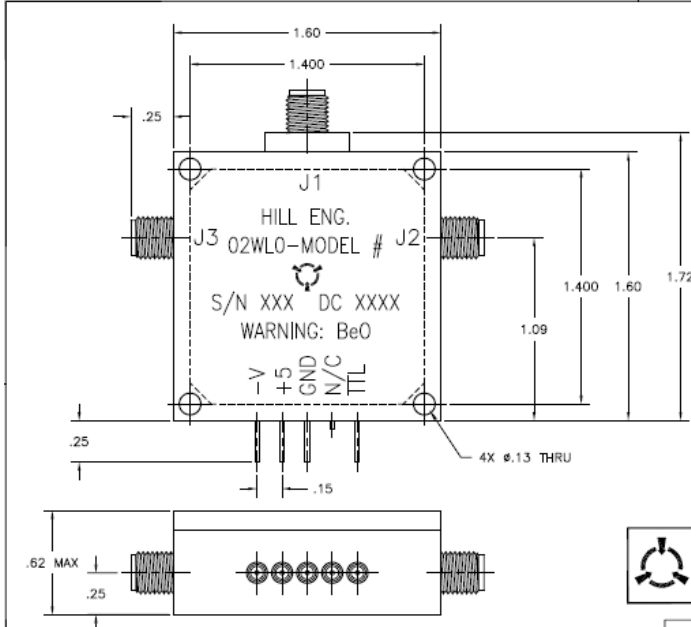
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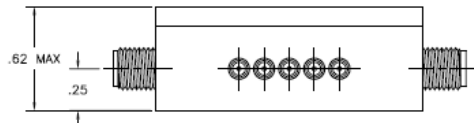
Rev: None

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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	7/23/96	J HILL
A	REVISED PER ECN #416	1/26/98	J HILL
B	REVISED PER ECN #696	2/12/99	SPL
C	REVISED PER ECN #2325 (dgb)	12/7/01	SPL
D	REVISED PER ECN #3348 (hrb)	8/25/04	AG

- NOTES:
- FINISH
 - PAINT PER PROCEEDURE MEI-105.
 - PRIMER: ZRC ZINC PRIMER HILL P/N 172-0003
 - PAINT: FLAT BLACK EPOXY ENAMEL HILL P/N 172-0002
 - MARKING
 - MARK PER PROCEEDURE MEI-147.
 - MARKING: .09" HIGH BLACK CHARACTERS
 - LABEL: METALIZED POLYESTER SHEET HILL 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."



LOGIC TABLE

OUTPUT	TTL	PATH
J1-J2	0	RCV
J1-J3	1	XMT

	H22-081
	M21-044
	M21-043
	M21-038
NEXT ASSY	USED ON

UNLESS OTHERWISE INDICATED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	APPROVALS	DATE
FINISHES: STAIN, POLISH, ANODIZE, PLATE, SURFACE TREATMENT SEE SPEC. REMOVE ALL SCRAP FROM PARTS	DESIGN BY: DE BARBER	7/23/96
	CHECKED BY: J HILL	7/23/96
	DATE: J HILL	12/95
	CUSTOMER APPROVALS:	

OMTECH PST Hill Engineering Division			
DRAWING TITLE: OUTLINE, 1P2T TTL LOGIC, T/R			
REV	QNC CODE	DRAWING NO.	REV
B	02WL0	03H02194-01	D
SCALE: 2/1		FILENAME: 03H02194-01.d	SHEET: 1 OF 1

ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED. DIMENSIONS ARE TO CENTER UNLESS OTHERWISE SPECIFIED.

APPLICATIONS: DO NOT SCALE DRAWING