	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (subject to change)	12/7/2009	None	H21-102
M21-002					

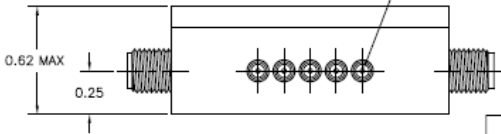
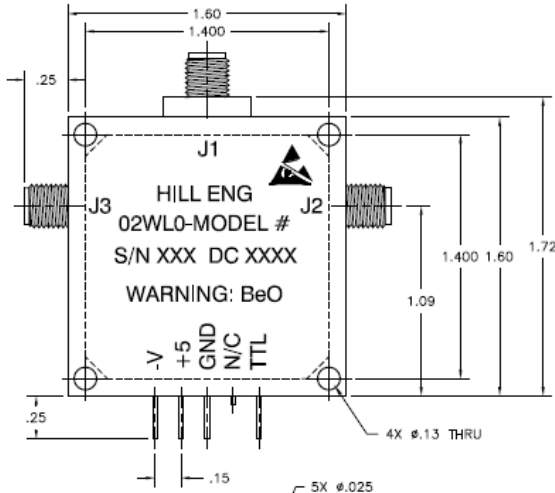
This document describes the performance of a high power 1P2T TR switch. This is a cold switched design i. e; switched while RF is off. Proper bias levels per item no.11 must be applied when operating this device.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		100	1000	MHz	
1.2	PEAK POWER		--	600	WATTS	
1.3	PULSE WIDTH		--	100	µs	
1.4	DUTY		--	20	%	
1.5	AVG/CW POWER		--	100	WATTS	
1.6	Receive power			2	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		1000	1050	MHz	
2.2	PEAK POWER		--	1	WATTS	
2.3	PULSE WIDTH		--	--	CW	
2.4	DUTY		--	--	CW	
2.5	CW POWER		--	1	WATT	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		--	>1050	MHz	
3.2	PEAK POWER		--	30	dBm	
3.3	PULSE WIDTH		--	--	CW	
3.4	DUTY		--	--	CW	
3.5	CW POWER		--	30	dBm	
4	OPERATING FREQUENCY		100	1000	MHz	
5	INSERTION LOSS					
5.1			--	0.70	dB	
6	ISOLATION					
6.1	XMIT		20	--	dB	
6.2	RCV		50	--	dB	
7	PHASE SPECIFICATION					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED

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M21-002					

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR		--	1.6:1		
8.1	VSWR	PORT NOT SELECTED	--	--		INFINITY
8.2	VSWR	LOAD	--	1.8:1		
8.3	VSWR	SOURCE	--	1.2:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		--	--	DBC	NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER	--	0	DBm	
10	SWITCHING SPECIFICATIONS					
10.1	SWITCHING SPEED	TO 0.5DB OF IL	--	7	us	
10.2	SWITCHING RATE		--	10	KHz	
10.3	VIDEO LEAKAGE		--	--	Vp-p	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE	TTL				
10.5	LOGIC TABLE					SEE DWG 3218 below
11	D.C. SPECIFICATIONS					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.5	V	
11.2	NEGATIVE BIAS VOLTAGE		-66	-74	V	
11.3	POSITIVE BIAS CURRENT		--	300	MA	
11.4	NEGATIVE BIAS CURRENT		--	40	MA	
11.5	VOLTAGE PROTECTION					THIS SWITCH HAS OVERVOLTAGE PROTECTION ON THE +5V PIN AND REVERSE VOLTAGE PROTECTION ON THE -70V PIN
12	CONNECTORS & INTERFACE					
12.1	RF					SMA(F)
12.2	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		--	4	OZ	
13.2	SIZE		--	--		SEE DWG 3218 below
13.3	FINISH		--	--		SEE DWG 3218 below
14	ENVIROMENTAL					
14.1	OPERATING TEMPERATURE		-50	+50	C	
14.2	STORAGE TEMPERATURE		-55	+85	C	
14.3	VIBRATION LEVEL					GND TRANSPORT
14.4	SEAL					NON-HERMETIC

Federal Cage Code 02WLO



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

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	
FRACTIONS (DECIMALS ARE IN INCHES) SURFACE FINISH REMOVE ALL BURRS FROM PARTS	DRAWN BY: DG BARKER CHECKED BY: JC HILL MANUFACTURING: JA WARD QC: JC HILL CUSTOMER APPROVALS:	7/12/2000 7/14/2000 7/14/2000 7/14/2000	
MATERIAL: GENERIC	DRAWING TITLE: OUTLINE, 1P2T TTL SWITCH		SIZE: B QTY: 02WLO DRAWING NO.: 3218 REV: A
NEXT ASSY: USED ON	APPLICATIONS: DO NOT SCALE DRAWING	SCALE: 2/1	FRAME: 3218- SHEET: 1 of 1