

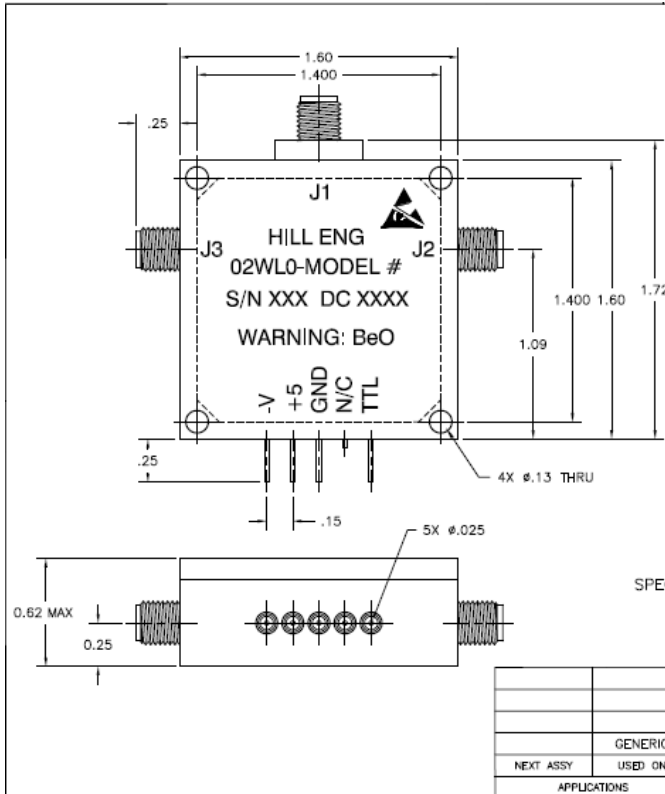
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b>	10/30/06	N/A	H22-117

This document describes the Specification for 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.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		0.8	1.2	GHz	
1.2	PEAK POWER		--	700	WATTS	
1.3	PULSE WIDTH		--	1	μs	
1.4	DUTY		--	5	%	
1.5	CW POWER		--	35	WATT	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		1.2	2.5	GHz	
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		--	>2.5	GHz	
3.2	PEAK POWER		--	30	dBm	
3.3	PULSE WIDTH		--	--	CW	
3.4	DUTY		--	--	CW	
3.5	CW POWER		--	30	dBm	
4	OPERATING FREQUENCY		0.8	1.2	GHz	
5	INSERTION LOSS					
5.1			--	0.80	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		30	--	dB	
6.2	OUTPUT TO OUTPUT		30	--	dB	
7	PHASE SPECIFICATION					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR		--	1.3:1		
8.1	VSWR	PORT NOT SELECTED	--	--		INFINITY
8.2	VSWR	LOAD	--	1.8:1		
8.3	VSWR	SOURCE	--	1.2:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		-50	--	DBc	
9.2		MEASURED AT INCIDENT POWER	--	0	DBm	
10	SWITCHING SPECIFICATIONS					
10.1	SWITCHING SPEED	TO 0.5DB OF IL	--	1	us	
10.2	SWITCHING RATE		--	100	KHz	
10.3	VIDEO LEAKAGE		--	--	Vp-p	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE	TTL SINGLE ENDED				
10.5	LOGIC TABLE					SEE DWG 3218
11	D.C. SPECIFICATIONS					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.5	V	
11.2	NEGATIVE BIAS VOLTAGE		-46	-54	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 -50V 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
13.3	FINISH		--	--		SEE DWG 3218
14	ENVIROMENTAL					
14.1	OPERATING TEMPERATURE		-50	+50	C	
14.2	STORAGE TEMPERATURE		-55	+85	C	
14.3	VIBRATION LEVEL					Airborne subsonic
14.4	SEAL	Weather sealed, non-hermetic				



LOGIC TABLE

OUTPUT	TTL
J1-J2	0
J1-J3	1

REVISIONS

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

- 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



MATERIALS (INCLUDE SPECIFICATIONS AND INSTRUCTIONS)				APPROVALS	DATE	
FRCTIONS	DESIGNS	MADE	SURFACE	DRWN BY	7/12/2000	
21/04	02 WLO	02 WLO	02 WLO	CHKD BY		
REMOVE ALL DIMS FROM PARTS				DESIGNS	7/14/2000	DRAWING TITLE 02WLO 3218 REV A
MATERIAL				MANUFACTURED BY	7/14/2000	
GENERIC				DC	7/14/2000	SIZE B 02WLO 3218 REV A
NEXT ASSY USED ON				DC	7/14/2000	
APPLICATIONS				CUSTOMER APPROVALS		SCALE: 2/1 FILE NO: 3218- SHEET 1 OF 1