

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	3/14/06	None	<b>H26-021</b>

This document describes the performance of a high power 1P2T switch. This is a cold switched designed to switch cold; i.e; switching occurs only when 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		8.0	18.0	GHz	
1.2	PEAK POWER		--	1000	WATTS	
1.3	PULSE WIDTH		--	4	μS	
1.4	DUTY		--	2	%	
1.5	AVERAGE POWER		--	20	WATTS	
1.6	CW POWER		--	--	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		18.0	18.5	GHz	
2.2	PEAK POWER		--	20	WATTS	
2.3	PULSE WIDTH		--	0.5	μS	
2.4	DUTY		--	5	%	
2.5	AVERAGE POWER		--	1	WATTS	
2.6	CW POWER		--	--	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>18.5	GHz	
3.2	PEAK POWER		--	0.03	WATTS	
3.3	PULSE WIDTH		CW	--	μS	
3.4	DUTY		CW	--	%	
3.5	AVERAGE POWER		--	--	WATTS	
3.6	CW POWER		--	0.03	WATTS	
4	OPERATING FREQUENCY		8.0	18.0	GHz	
5	INSERTION LOSS	100% of band	--	2.4	dB	
		80% of band		1.8	dB	
6	ISOLATION					
6.1	ISOLATION	INPUT TO OUTPUT	50	--	dB	
6.1	ISOLATION	OUTPUT TO OUTPUT	50	--	dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED



Cage Code: 02WLO

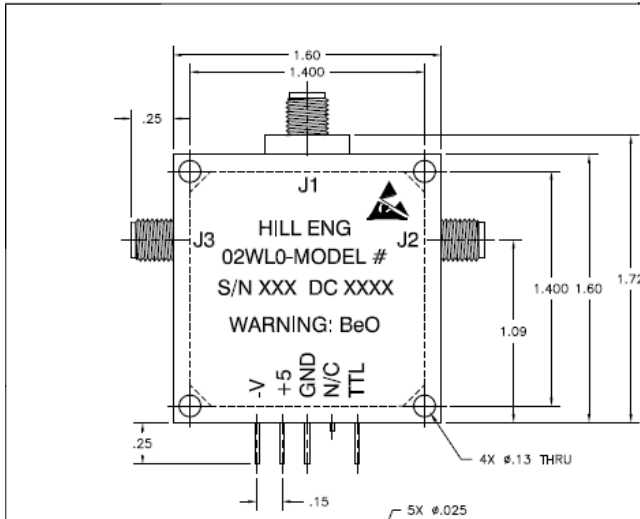
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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR					
8.1	INPUT	SELECTED PORTS	--	2:1	--	
8.2	OUTPUT	SELECTED PORTS	--	2:1	--	
8.3	PORT NOT SELECTED		--	∞	--	infinity
8.4	TERMINATION		--	2.5:1	--	
	VSWR					
8.5	SOURCE		--	1.2:1	--	
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER		0	dBm	
10	SWITCHING					
10.1	SPEED	TO 0.50DB	--	1.5	μS	
10.2	SWITCHING RATE		--	100	KHz	
10.3	COMMAND LOGIC	TTL				
10.4	LOGIC TABLE					SEE OUTLINE DWG 3218 below
10.5	VIDEO LEAKAGE					NOT SPECIFIED
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-46	-54	VDC	
11.3	POSTIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			60	mA	
12	CONNECTORS					
12.1	RF					SMA(F)
12.2	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		--	3.5	OZ	
13.2	OUTLINE					SEE DWG 3218 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-20	+60	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GND MOBILE
14.4	DEVICE SCREENING	LEVEL 2				QP-121



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."

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

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



UNLESS OTHERWISE SPECIFIED (DIMENSIONS ARE IN INCHES) TOLERANCES ARE:		APPROVALS DRAWN BY: DC BARKER CHECKED BY: JC HILL MANUFACTURED BY: JC HILL DATE: 7/14/2000	DATE: 7/12/2000	COMTECH PST Hill Engineering Division	DRAWING TITLE: OUTLINE, 1P2T TTL SWITCH	SIZE: B QTY: 02WLO SCALE: 2/1	DRAWING NO.: 3218	NET: A
FINISHES: SERIALS: ANGLES: SURFACE:	DIMENSIONS: 25 ± .015, .0007 FINISHES: ALL SURFS FROM PARTS	APPROVALS: CHECKED BY: JC HILL DATE: 7/14/2000 MANUFACTURED BY: JC HILL DATE: 7/14/2000 CUSTOMER APPROVALS:	DRAWING NO.: 3218					
MATERIAL:	GENERIC:	PARTS:	APPLICATIONS:	DO NOT SCALE DRAWING	SCALE: 2/1	PARTS: 3218-	SHEET: 1 OF 1	