

	Cage Code:	Title:	Date:	Rev:		Model no:
	02WL0	PRODUCT DATA (Subject to change)	12/5/06	N/A		H25-025

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 (section 11) must be applied to this switch under all operating conditions. This switch is absorptive at low power levels (section 8.2.1)

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		12.4	18	GHz	
1.2	PEAK POWER			2000	WATTS	
1.3	PULSE WIDTH		50	300	nS	
1.4	DUTY			6	%	
1.5	AVG POWER			120	WATTS	
1.6	CW POWER				WATTS	Not specified
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		18	18.5	GHz	
2.2	PEAK POWER			10	WATTS	
2.3	PULSE WIDTH		50	300	nS	
2.4	DUTY			6	%	
2.5	AVG POWER			0.6	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>18.5		GHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	μS	
3.4	DUTY			CW	%	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY		12.4	18	GHz	
5	INSERTION LOSS			2.5	dB	
6	ISOLATION					
6.1	I/O		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORT SELECTED			1.6:1		
8.2	PORT NOT SELECTED			2:1		
8.2.1	OFF TERMINATION POWER	PEAK POWER AVERAGE POWER		2 80	WATTS miliwatts	
8.3	LOAD			2.0:1		
8.4	SOURCE			2.0:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		40		dBc	
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		1	uS	
10.2	SWITCHING RATE			200	KHz	
10.3	VIDEO LEAKAGE			1	Vpp	Across 50 Ohms
10.4	COMMAND LOGIC	RS-422				120 Ohm Balanced logic
10.5	LOGIC TABLE					SEE DWG 2143
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.3	NEGATIVE BIAS VOLTAGE		-66	-74	VDC	
11.4	POSITIVE BIAS CURRENT 1			300	mA	
11.4	NEGATIVE BIAS CURRENT			30	mA	
11.5	NOTE : Voltage Protection – This unit does not have over-voltage or reverse polarity protection on any bias port.					
12	CONNECTORS					
12.1	RF					TNCF
12.3	DC					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			4	Oz	
13.2	OUTLINE					See Dwg 2143
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+50	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



Cage Code:
02WLO

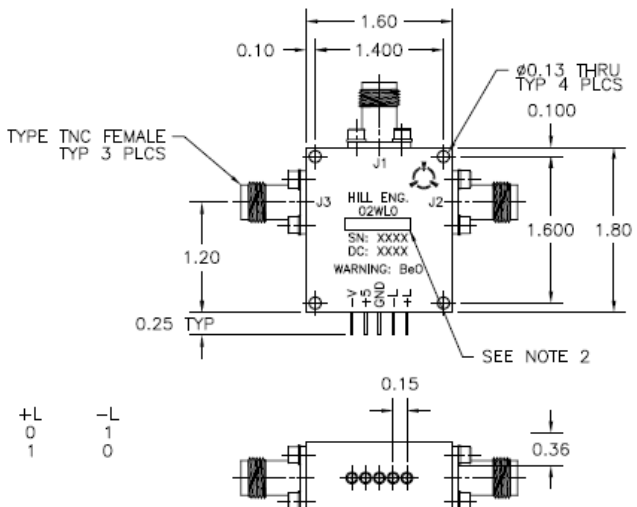
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REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	REVISED PER ECN #091	8/27/96	J HILL
B	REVISED PER ECN #416	1/26/98	J HILL
C	UPDATE PER ECN #3705	2/24/06	SPL
D	REVISED PER ECN #3915	2/26/07	SPL



OUTPUT	+L	-L
J1-J2	0	1
J1-J3	1	0

- 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
 - TRANSFER SURFACE TO BE CHEM. FILM
 - MARKING
 - MARK PER PROCEDURE MEI-147.
 - MARKING: .09" HIGH BLACK CHARACTERS
 - LABEL: METALIZED POLYESTER SHEET HILL P/N 127-0010.
 - DATECODE FORMAT SHALL BE (YYWK) EXAMPLE; 0608.
 - DATECODE FORMAT SHALL BE (YYWK) EXAMPLE; 0608.
 - 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

<small>UNLESS OTHERWISE SPECIFIED (INCLUDES ALL TO BE SHIP) TOLERANCES ARE:</small>				<small>APPROVALS</small>		<small>DATE</small>			
FUNCTIONS	DETAILS	ANALYSIS	SURFACE	DESIGNED BY	DATE	DESIGNED BY	DATE	DRAWING TITLE	
17/94	XX	20/90	20/90	DG BARKER	5/13/96	M. POLIGRINI	7/8/98	OUTLINE	
REMOVE ALL SURFS FROM PARTS				DESIGNED BY	DATE	DESIGNED BY	DATE	TNC SPDT SWITCH	
MATERIAL	FINISH	MANUFACTURING	DATE	J HILL	5/14/96	S. WARD	7/10/98	SIZE	DRAWING NO.
		J HILL	7/9/98	B	02WLO	2143	D	SCALE	SHEET
NEXT ASSY	USED ON	CUSTOMER APPROVALS		1/1	2143D	1	1	OF 1	
APPLICATIONS	DO NOT SCALE DRAWING								