

	Cage Code:	Title:	Date:	Rev:	Document no:
	02WL0	PRODUCT DATA	08/02/05	N/A	H22-116

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 must be applied when operating this device.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		2.7	3.2	GHz	
1.2	PEAK POWER	At input connector		100	WATTS	
1.3	PULSE WIDTH			CW	μs	
1.4	DUTY			CW	%	
1.5	AVG / CW POWER			100	WATTS	
2	RESERVED					
3	POWER SPECIFICATIONS	GUARD BAND				
3.1	FREQUENCY		3.2	4.0	GHz	
3.2	PEAK POWER			20	WATTS	
3.3	PULSE WIDTH			0.5	μs	
3.4	DUTY			5	%	
3.5	CW POWER			1	WATTS	
4	POWER SPECIFICATIONS	OUT OF BAND				
4.1	FREQUENCY		>4.0		GHz	
4.2	PEAK POWER			0.03	WATTS	
4.3	PULSE WIDTH		CW		μs	
4.4	DUTY		CW		%	
4.5	CW POWER			0.03	WATTS	
5	OPERATING FREQUENCY		2800	3150	MHz	
6	INSERTION LOSS					
6.1				1.5	dB	
7	ISOLATION					
7.1	INPUT TO OUTPUT		70		dB	
7.2	OUTPUT TO OUTPUT		70		dB	
8	PHASE					NOT SPECIFIED

	Cage Code:	Title:	Date:	Rev:	Document no:
	02WL0	PRODUCT DATA	08/02/05	N/A	H22-116

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	VSWR					
9.1	PORTS NOT SELECTED					INFINITE
9.2	INPUT & OUTPUT, SELECTED PORTS			1.4:1		
9.3	LOAD			2.0:1		
9.4	SOURCE			1.2:1		
10	HARMONICS & SPURS					
10.1	INTERNALLY GENERATED		-60		dBc	
10.2	MEASURED AT INCIDENT POWER			0	dBm	
11	SWITCHING					
11.1	SPEED	50% logic to 0.5dB		0.5	μs	Microseconds
11.2	SWITCHING RATE			50	kHz	
11.3	COMMAND LOGIC	RS-422				
11.4	VIDEO LEAKAGE		2	5	V p-p	
11.5	LOGIC TABLE					SEE DWG
12	D.C. POWER					
12.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
12.2	NEGATIVE BIAS VOLTAGE		-66	-74	VDC	
12.4	POSITIVE BIAS CURRENT			300	mA	
12.5	NEGATIVE BIAS CURRENT			50	mA	
	NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.					
13	CONNECTORS					
13.1	RF					TNCF
13.3	DC					9 pin D
14	MECHANICAL					
14.1	WEIGHT			14	Oz.	
14.2	OUTLINE					SEE DWG
15	ENVIRONMENTAL					
15.1	OPERATING TEMPERATURE		-20	+70	°C	
15.2	STORAGE TEMPERATURE		-55	+85	°C	
15.3	VIBRATION LEVEL					AIRBORNE SUBSONIC



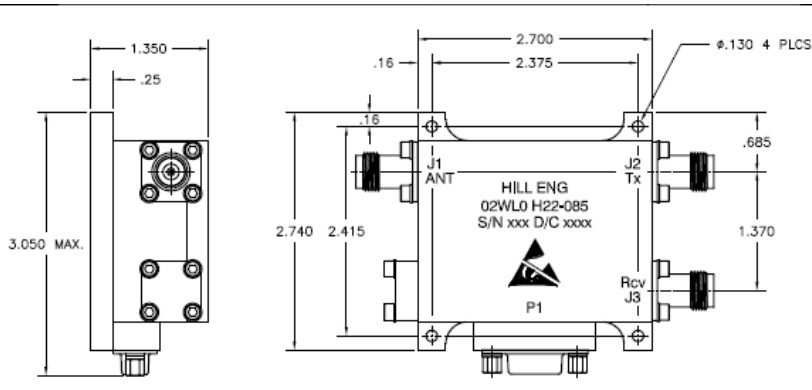
Cage Code: 02WL0

Title: PRODUCT DATA

Date: 08/02/05

Rev: N/A

Document no: H22-116

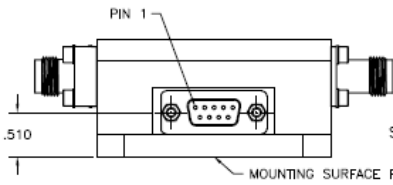


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE EDRN #2154	10/21/03	SPL
A	REVISED PER ECN #3128 (hnb)	2/23/04	SPL
B	REVISED PER ECN #3248 (hnb)	3/30/04	SPL

P1 CONNECTIONS	
PIN	SIGNAL
1	+5V
2	-70V
3	GND
4	LOGIC + (RS-422)
5	LOGIC - (RS-422)
6	GND
7	N/C
8	N/C
9	GND

TRUTH TABLE		
PIN 4	PIN 5	SELECTED PATH
0	1	Tx J2-J1
1	0	Rcv J1-J3

- NOTES:
- FINISH
 - PAINT PER PROCEDURE MB-105.
 - PRIMER: ZRC ZINC PRIMER HILL P/N 172-0003
 - PAINT: FLAT BLACK EPOXY ENAMEL HILL P/N 172-0002
 - MOUNTING SURFACE: CHEMICAL FILM.
 - MARKING
 - MARK PER PROCEDURE MEI-147.
 - MARKING: .125" HIGH BLACK CHARACTERS
 - LABEL: METALIZED POLYESTER SHEET HILL P/N 127-0010.
 - DATECODE FORMAT SHALL BE (YYWK) EXAMPLE: 0344.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:		APPROVALS	DATE	
FRACTIONS	DECIMALS	DESIGNED BY	10/21/03	
1/16	.005, .010, .015	DRAWN BY	10/21/03	DRAWING TITLE: OUTLINE, T/R SWITCH
1/32	.002, .003, .005	CHECKED BY	10/21/03	
H22-100		DESIGNED BY	10/21/03	SIZE: B CASE CODE: 02WL0 DRAWING NO.: 3739 REV: B
H22-085		MANUFACTURED BY	10/21/03	
NEXT ASSY	USED ON	CUSTOMER APPROVALS		SCALE: 1/1 FILENAME: 3739b SHEET 1 of 1
APPLICATIONS		DO NOT SCALE DRAWING		