



Cage Code: 02WLO

Title: **PRODUCT DATA**
(subject to change)

Date: 9/22/03

Rev: None

Model no: **H26-206**

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		6	18	GHz	
1.2	PEAK POWER			2000	WATTS	
1.3	PULSE WIDTH			5	μS	
1.4	DUTY			4	%	
1.5	AVG. POWER			80	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		18	18.5	GHz	
2.2	PEAK POWER			20	WATTS	
2.3	PULSE WIDTH			0.5	μS	
2.4	DUTY			5	%	
2.5	CW POWER			1	WATT	
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	CW POWER			0.03	WATTS	
4	OPERATING FREQUENCY		6	18	GHz	
5	INSERTION LOSS					
5.1				2.5	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		40		dB	
6.2	OUTPUT TO OUTPUT		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE



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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR (CONT.)					
8.2	INPUT & OUTPUT, SELECTED PORTS			1.8:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.2:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	MEASURED AT INCIDENT POWER			0	WATTS	
10	SWITCHING					
10.1	SPEED	50% Logic To 0.5dB		1.5	μS	
10.2	SWITCHING RATE			50	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE					NOT SPECIFIED
10.5	LOGIC TABLE					SEE DWG 2143 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-48	-54	VDC	
11.4	POSITIVE BIAS CURRENT			300	mA	
11.5	NEGATIVE BIAS CURRENT			60	mA	
NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.						
12	CONNECTORS					
12.1	RF					TNCF
12.3	DC					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			6	Oz.	
13.2	OUTLINE					SEE DWG 2143 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GROUND MOBILE



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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	2/28/07	SPL

TYPE TNC FEMALE
TYP 3 PLCS

1.60
1.400
0.10
0.13 THRU
TYP 4 PLCS
0.100
1.600
1.80
0.25 TYP
SEE NOTE 2

HEAT TRANSFER SURFACE
SEE NOTE 1d.

DATE CODE
AS REQUIRED

0.75

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

0.15
0.36

NOTES:
1. FINISH
a. PAINT PER PROCEDURE MEI-105.
b. PRIMER: ZRC ZINC PRIMER HILL P/N 172-0003
c. PAINT: FLAT BLACK EPOXY ENAMEL HILL P/N 172-0002
d. TRANSFER SURFACE TO BE CHEM. FILM
2. MARKING
a. MARK PER PROCEDURE MEI-147.
b. MARKING: .09" HIGH BLACK CHARACTERS
c. LABEL: METALIZED POLYESTER SHEET HILL P/N 127-0010.
3. DATECODE FORMAT SHALL BE (YYWK) EXAMPLE, 0608.
4. -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

14501 (STANDARD) (CHECKED) ELECTRONIC USE IN DRAWING	APPROVALS	DATE	 OUTLINE SPDT SWITCH
PRINTING: 21/84 SERIAL: 20 FILED: 20797 DATE: 000	DESIGNED BY: DG BARKER CHECKED BY: M. LUGRINI DESIGNED BY: J. HILL MANUFACTURING BY: S. WARD DATE: J. HILL CUSTOMER APPROVALS:	9/13/96 7/8/98 5/14/98 7/10/98 7/9/98	
MATERIAL	DATE	DATE	DRAWING TITLE: OUTLINE TNC SPDT SWITCH
PREP	DATE	DATE	
NEXT ASSY	USED ON		SIZE: B DATE CODE: 02WLO DRAWING NO.: 2143 REV: D
APPLICATIONS	DO NOT SCALE DRAWING		SCALE: 1/1 FILENAME: 214330 SHEET 1 OF 1