

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(Subject to change)</b>	12/22/03	N/A	<b>H26-018</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	18	GHz	
1.2	PEAK POWER		--	2000	WATTS	
1.3	PULSE WIDTH		--	10	μS	
1.4	DUTY		--	4	%	
1.5	AVERAGE POWER		--	80	WATTS	
1.6	CW POWER		--	-	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		18	19	GHz	
2.2	PEAK POWER		--	200	WATTS	
2.3	PULSE WIDTH		--	10	μS	
2.4	DUTY		--	4	%	
2.5	AVERAGE POWER		--	8	WATTS	
2.6	CW POWER		--	8	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>19	GHz	
3.2	PEAK POWER		--	5	WATTS	
3.3	PULSE WIDTH		--	10	μS	
3.4	DUTY		--	4	%	
3.5	AVERAGE POWER		--	--	WATTS	
3.6	CW POWER		--	0.2	WATTS	
4	OPERATING FREQUENCY		8.0	18.0	GHz	
5	INSERTION LOSS					
		8.0 to 12.0 GHz		1.3	dB	
		12.0-18.0 GHz		1.6	dB	
6	ISOLATION					
6.1	ISOLATION	INPUT TO OUTPUT	45	--	dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT	SELECTED PORTS	--	1.6:1	--	

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8.2	OUTPUT	SELECTED PORTS	--	1.6:1	--	
8.3	PORT NOT SELECTED		--	∞	--	infinity
8.4	TERMINATION		--	2.5:1	--	
8.5	SOURCE		--	1.2:1	--	
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	TO 0.50DB	--	1.0	μS	
10.2	SWITCHING RATE		--	75	KHz	
10.3	COMMAND LOGIC	RS-422				
10.4	LOGIC TABLE					SEE OUTLINE DWG 3748
10.5	POSITION SENSE					NOT AVAILABLE
10.6	VIDEO LEAKAGE					NOT SPECIFIED
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-66	-72	VDC	
11.3	POSTIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			20	mA	
12	CONNECTORS					
12.1	RF					SMA(F)
12.2	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		--	4	OZ	
13.2	OUTLINE					SEE DWG 3748
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



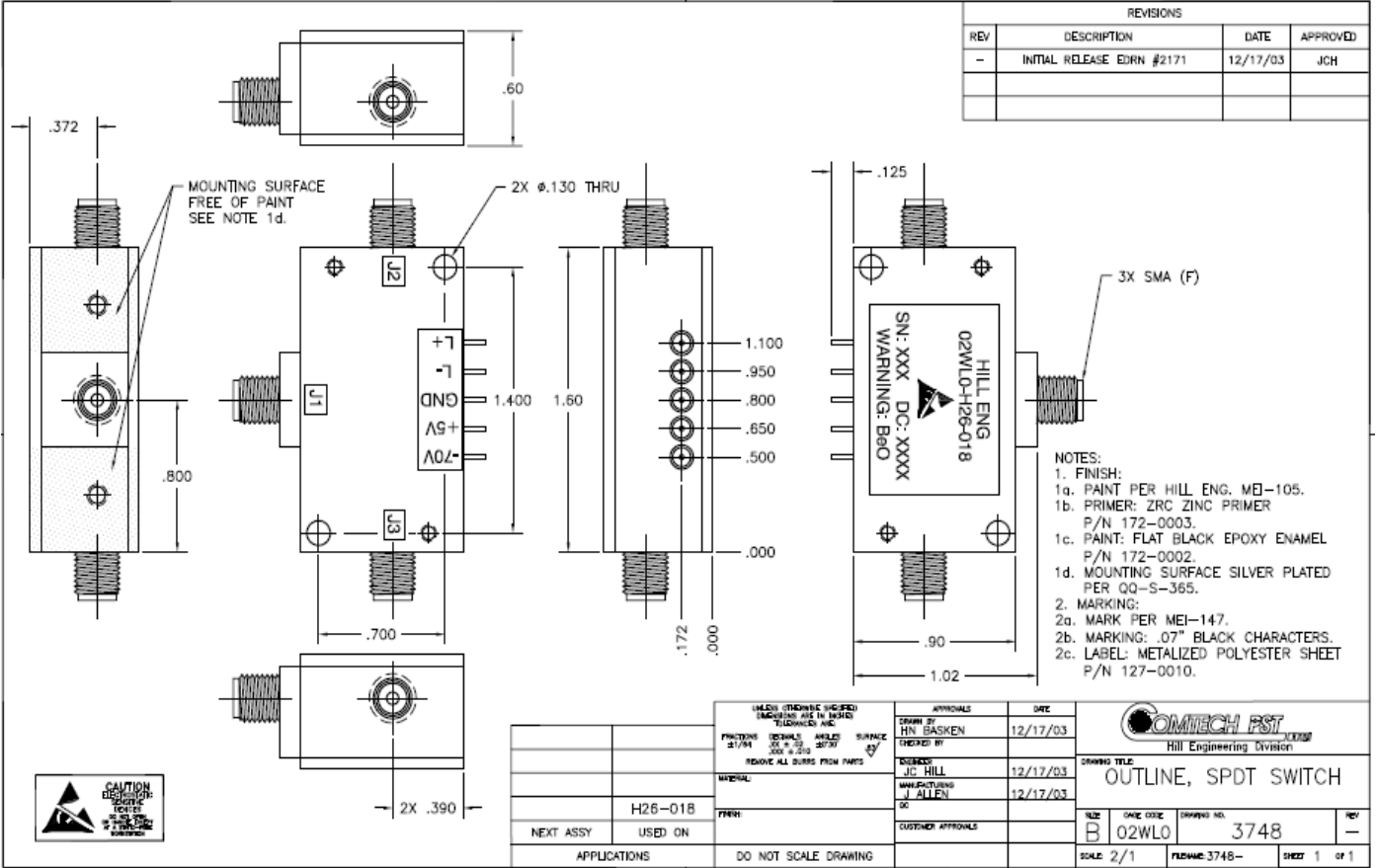
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**(Subject to change)**

Date: 12/22/03

Rev: N/A

Model no: **H26-018**



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE EDNR #2171	12/17/03	JCH

- NOTES:
- FINISH:
    - PAINT PER HILL ENG. MEI-105.
    - PRIMER: ZRC ZINC PRIMER P/N 172-0003.
    - PAINT: FLAT BLACK EPOXY ENAMEL P/N 172-0002.
    - MOUNTING SURFACE SILVER PLATED PER QQ-S-365.
  - MARKING:
    - MARK PER MEI-147.
    - MARKING: .07" BLACK CHARACTERS.
    - LABEL: METALIZED POLYESTER SHEET P/N 127-0010.

HILL ENGINEERING DIVISION ELECTRONIC ASSEMBLY 21/94 22 4 13 20707 REMOVE ALL BURRS FROM PARTS		APPROVALS DESIGNED BY: HN BASKEN CHECKED BY: J.C. HILL MANUFACTURED BY: J. ALLEN	DATE 12/17/03 12/17/03 12/17/03	
MATERIAL: H26-018 FINISH: USED ON		CUSTOMER APPROVALS	DRAWING TITLE <b>OUTLINE, SPDT SWITCH</b>	
APPLICATIONS: DO NOT SCALE DRAWING		SIZE: B QTY: 02WLO SCALE: 2/1	DRAWING NO.: 3748 FRAME: 3748- SHEET: 1 of 1	REV: -