

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	8/13/04	None	<b>H26-019</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		12	18	GHz	
1.2	PEAK POWER		--	1000	WATTS	
1.3	PULSE WIDTH		--	1.5	uS	
1.4	DUTY		--	10	%	
1.5	AVERAGE POWER		--	100	WATTS	
1.6	CW POWER		--	-	WATTS	Not specified
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		18	19	GHz	
2.2	PEAK POWER		--	200	WATTS	
2.3	PULSE WIDTH		--	1.5	uS	
2.4	DUTY		--	5	%	
2.5	AVERAGE POWER		--	10	WATTS	
2.6	CW POWER		--		WATTS	Not specified
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>19	GHz	
3.2	PEAK POWER		--	1	WATTS	
3.3	PULSE WIDTH		--	1	uS	
3.4	DUTY		--	5	%	
3.5	AVERAGE POWER		--	0.025	WATTS	
3.6	CW POWER		--		WATTS	
4	OPERATING FREQUENCY		12.0	18.0	GHz	
5	INSERTION LOSS					
				1.5	dB	
6	ISOLATION					
6.1	ISOLATION	INPUT TO OUTPUT	20	--	dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT	SELECTED PORTS	--	2:1	--	

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8.2	OUTPUT	SELECTED PORTS	--	2:1	--	
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		--	2000	Hz	
10.3	COMMAND LOGIC	TTL				
10.4	LOGIC TABLE					SEE OUTLINE 3871 below
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		-46	-54	VDC	
11.3	POSTIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			20	mA	
12	CONNECTORS					
12.1	RF					TNC(F)
12.2	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		--	6	OZ	
13.2	OUTLINE					3871 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



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3X 4-40 UNC FREE RUNNING SCREW  
THREAD INSERT PER MS122116

.375

.130

.100

.140

.360

1.050

.170

HEAT TRANSFER SURFACE  
MOUNTING SURFACE  
SEE NOTE 1d.

.815

.125 ± .020

3X TNC (F)

5X .025 LEAD

.415

.800

2.175 ± .020

3X .036 PIN

.085

1.155

1.030

.905

.780

.530

.280

.000

1.33

.20

.75

GND

P3

P5

REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE EDN #2441	8/10/04	SPL
A	REVISED PER ECN #3341 (hrb)	8/13/04	SPL
B	REVISED PER ECN #3349 (hrb)	8/30/04	SPL

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. MOUNTING SURFACE: CHEMICAL FILM.  
2. MARKING  
a. MARK PER PROCEDURE MEI-147.  
b. MARKING: .075" HIGH BLACK CHARACTERS  
c. LABEL: METALIZED POLYESTER SHEET HILL P/N 127-0010.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

P3	P5	J1-J2	J1-J3
0	0	OFF	OFF
1	0	OFF	ON
0	1	ON	OFF
1	1	ON	ON

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:	APPROVALS	DATE
FRACTIONS: 24/64 DECIMALS: .0005 ANGLES: 30/60 SURFACE: REMOVE ALL BURRS FROM PARTS	DESIGN BY: HN BASKEN CHECKED BY: DESIGNED BY: SP LEROUX MANUFACTURING: J ALLEN DC	7/9/04  8/10/04 8/10/04
PART: H26-019	CUSTOMER APPROVALS:	
NEXT ASSY: USED ON:		
APPLICATIONS:	DO NOT SCALE DRAWING	

<b>COMTECH PST</b> Hill Engineering Division			
DRAWING TITLE: <b>OUTLINE, 1P2T SWITCH</b>			
SIZE: <b>B</b>	CAGE CODE: <b>02WLO</b>	DRAWING NO.: <b>3871</b>	REV: <b>B</b>
SCALE: 1/1	FILENAME: 3871b	SHEET: 1	OF 1