COMTECH PST Hill Engineering Division	Cage Code: 02WLO	Title: PRODUCT DATA (subject to change)	Date: 7/29/2009	Rev: None		Model no: H22-066

This document describes the performance 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		3.0	3.1	GHz	
1.2	Peak power			3000	Watts	
1.3	Pulse width			10	µS	
1.4	Duty			2	%	
1.5	CW power			60	Watts	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	Frequency		3.1	4.0	GHz	
2.2	Peak power			20	Watts	
2.3	Pulse width			10	µS	
2.4	Duty			2	%	
2.5	CW power			0.4	Watts	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	Frequency		>4.0		GHz	
3.2	Peak power			0.03	Watts	
3.3	Pulse width			10	µS	
3.4	Duty			2	%	
3.5	CW power			0.0006	Watts	
4	OPERATING FREQUENCY		3.0	3.1	GHz	
5	INSERTION LOSS					
5.1				0.7	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
8.2	Input & Output, Selected ports			1.8:1		

8.3	Termination			2.0:1		
ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
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% TTL TO 90% RF		5	µS	
10.2	Switching rate			50	kHz	
10.3	Command Logic	TTL				
10.4	Video leakage					NOT SPECIFIED
10.4	Logic table					SEE DWG 3096 below
11	D.C. POWER					
11.1	Positive bias voltage		4.5	5.5	VDC	
11.2	Negative bias voltage		-66	-74	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					N(F)
12.3	DC					DEM-9P
12.4	Logic					SMA(F)
13	MECHANICAL					
13.1	Weight			12	Oz.	
13.2	Outline					SEE DWG 3096 below
14	ENVIRONMENTAL					
14.1	Operating temperature		0	+50	^{o}C	
14.2	Storage temperature		-20	+60	^{o}C	
14.3	Vibration level					GROUND TRANSPORT
14.4	Screening					QCP-121 LEVEL 2

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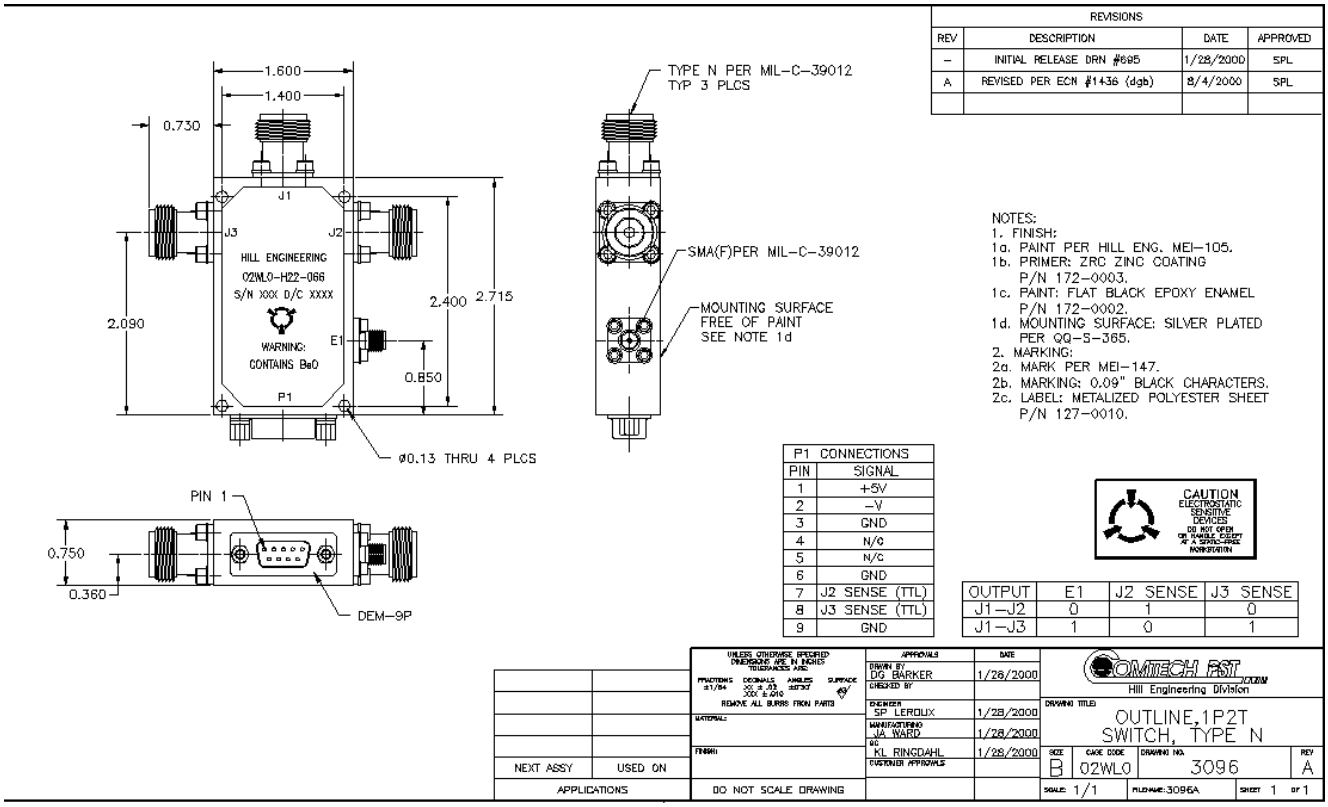

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
–	INITIAL RELEASE DRN #695	1/28/2000	SPL
A	REVISED PER ECN #1436 (dgb)	8/4/2000	SPL

NOTES:
1. FINISH:
1a. PAINT PER HILL ENG. MEI-105.
1b. PRIMER: ZRC ZINC COATING P/N 172-0003.
1c. PAINT: FLAT BLACK EPOXY ENAMEL P/N 172-0002.
1d. MOUNTING SURFACE: SILVER PLATED PER QQ-S-365.
2. MARKING:
2a. MARK PER MEI-147.
2b. MARKING: 0.09" BLACK CHARACTERS.
2c. LABEL: METALIZED POLYESTER SHEET P/N 127-0010.

P1 CONNECTIONS	
PIN	SIGNAL
1	+5V
2	-V
3	GND
4	N/C
5	N/C
6	GND
7	J2 SENSE (TTL)
8	J3 SENSE (TTL)
9	GND

CAUTION
ELECTROSTATIC SENSITIVE DEVICES
DO NOT OPEN OR HANDLE EXCEPT AT A STATIC-FREE WORKSTATION

OUTPUT	E1	J2 SENSE	J3 SENSE
J1-J2	0	1	0
J1-J3	1	0	1

NEXT ASSY	USED ON
APPLICATIONS	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE:
FRACTIONS ±1/64 DECIMALS .XX ±.03 .XXX ±.010 ANGLES ±0°30' SURFACE
REMOVE ALL BURRS FROM PARTS
MATERIAL:
FINISH:
DO NOT SCALE DRAWING

APPROVALS	DATE
DRAWN BY DG BARKER	1/28/2000
CHECKED BY	
ENGINEER SP LEROUX	1/28/2000
MANUFACTURING JA WARD	1/28/2000
QA KL RINGDAHL	1/28/2000
CUSTOMER APPROVALS	

COMTECH PST CORPORATION
Hill Engineering Division

DRAWING TITLE: OUTLINE, 1P2T SWITCH, TYPE N

SIZE	CAGE CODE	DRAWING NO.	REV
B	02WL0	3096	A

SCALE 1/1 FILENAME: 3096A SHEET 1 OF 1