
	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (subject to change)	11/19/2009	None	M20-080

(15H04552-01)

This document describes the performance of a high power 1P2T switch. This is a cold-switched design i.e.; switched while RF is off.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		40	260	MHz	
1.2	PEAK POWER			400	WATTS	
1.3	PULSE WIDTH		50	500	nS	
1.4	DUTY			15	%	
1.5	AVG POWER			60	WATTS	
1.6	CW POWER			10	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		260	400	MHz	
2.2	PEAK POWER			10	WATTS	
2.3	PULSE WIDTH		50	500	nS	
2.4	DUTY			15	%	
2.5	CW POWER			10	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>400		MHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	μS	
3.4	DUTY			CW	%	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY		60	250	MHz	
5	INSERTION LOSS			0.7	dB	
6	ISOLATION					
6.1	I/O		40		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORT SELECTED			1.6:1		
8.2	PORT NOT SELECTED			2:1		
8.2.1	OFF TERMINATION POWER	PEAK POWER AVERAGE POWER		20 5	WATTS	
8.3	LOAD			2.0:1		
8.4	SOURCE			2.0:1		

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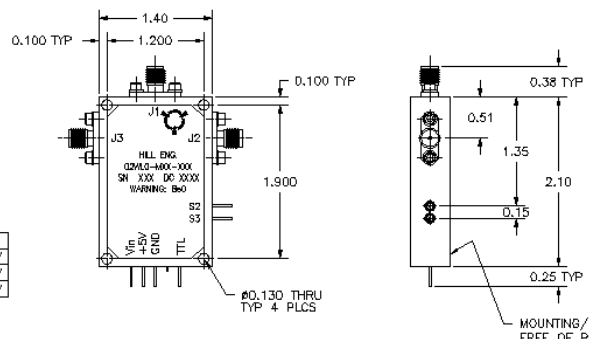
ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		40		dBc	
10	SWITCHING					
10.1	SPEED	TO 0.50DB I.L.		400	nS	
10.2	SWITCHING RATE			150	KHz	
10.3	VIDEO LEAKAGE			5	Vpp	Across 50 Ohms
10.4	COMMAND LOGIC	TTL				
10.5	LOGIC TABLE					SEE DWG 2997 (below)
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.3	NEGATIVE BIAS VOLTAGE		-26	-32	VDC	
11.4	POSITIVE BIAS CURRENT 1			300	mA	
11.4	NEGATIVE BIAS CURRENT			100	mA	
11.5	NOTE : Voltage Protection – This unit does not have over-voltage or reverse polarity protection on any bias port.					
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					Solder Pins
13	MECHANICAL					
13.1	WEIGHT			4	Oz	
13.2	OUTLINE					See DWG 2997 (below)
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+50	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT

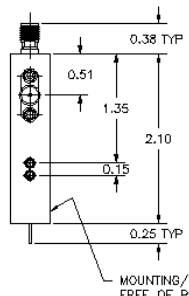
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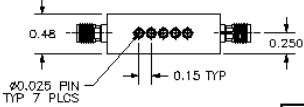
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE DRN #322	8/18/99	SPL
A	REVISED PER EDN #1062 (dqb)	9/10/99	SPL
B	REVISED PER EDN #4600	5/5/08	CTN
C	REVISED PER EDN #4860	8/3/08	SPL







MODEL	Vin
M22-035	+28V
M20-080	-28V
M22-121	-28V




NOTES:

- FINISH:
 - PAINT PER HILL ENG. MEI-105.
 - PRIMER: YELLOW ZINC OXIDE P/N 172-0001.
 - PAINT: FLAT BLACK EPOXY ENAMEL P/N 172-0002.
 - MOUNTING SURFACE SILVER PLATED PER QQ-S-365.
- MARKING:
 - MARK PER MEI-147.
 - MARKING: 0.08" BLACK CHARACTERS.
 - LABEL: METALIZED POLYESTER SHEET P/N 127-0010.

LOGIC TABLE

OUTPUT	TTL	S2	S3
J1-J2	0	1	0
J1-J3	1	0	1

WARNING: TOXIC CONTAINS BERYLLIA DO NOT OPEN THIS DEVICE



<p>MAKES OVERSIZE OPENING DIMENSIONS ARE IN RICHES</p> <p>FUNCTIONS: DIMENSIONS: UNLESS OTHERWISE SPECIFIED SURFACE FINISH: 32. P. 1000</p> <p>REWORK: ALL SURFACES FROM PARTS</p>	<p>APPROVED BY: DO BARKER 8/2/99</p> <p>DESIGNED BY: SP LEROUX 8/18/99</p> <p>DESIGNED BY: SP LEROUX 8/18/99</p> <p>DESIGNED BY: SA WARD 8/24/99</p> <p>DESIGNED BY: KL BRINGDAHL 8/18/99</p>	<p>DWG NO: 02WLO</p> <p>DWG REV: B</p> <p>DWG DATE: 11/19/09</p> <p>DWG NO: 03H02997-01</p> <p>DWG REV: C</p>
<p>APPLICATIONS: DO NOT SCALE DRAWING</p>	<p>DATE: 11/19/09</p> <p>FILE NO: 03H02997-01c</p> <p>SHEET: 1 OF 1</p>	<p>COMPANY: COMTECH PST Hill Engineering Division</p> <p>TITLE: OUTLINE, 1P2T TTL SWITCH W/POSITION SENSE</p>