

	Cage Code:	Title:	Date:	Rev:	Model No:
	02WLO	PRODUCT DATA (subject to change)	7/14/00	None	UH20-134

This document describes the performance of a high power 1P2T internally matched switched receiver protector. This is a cold switched design i. e; switched while 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		100	250	MHz	
1.2	PEAK POWER		---	40	WATTS	
1.3	PULSE WIDTH		---	45	μSEC	
1.4	DUTY		---	1	%	
1.5	AVERAGE POWER		---	.4	WATTS	
1.6	CW POWER		---	10	WATTS	
1.7	TERMINATED PORT	PORT NOT SELECTED	---	.4	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		250	600	MHz	
2.2	PEAK POWER		---	0.5	WATTS	
2.3	PULSE WIDTH		---	---	CW	
2.4	DUTY		---	---	CW	
2.5	CW POWER		---	0.5	WATT	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		---	>600	MHz	
3.2	PEAK POWER		---	0.1	WATTS	
3.3	PULSE WIDTH		---	---	CW	
3.4	DUTY		---	---	CW	
3.5	CW POWER		---	0.1	WATTS	
4	OPERATING FREQUENCY		100	250	MHz	
5	INSERTION LOSS		---	1.0	DB	
6	ISOLATION					
6.1		INPUT TO OUTPUT	60	---	DB	
6.2		OUTPUT TO OUTPUT	60	---	DB	
7	PHASE					
7.1	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT	SELECTED PORT	---	1.4:1	---	
8.2	OUTPUT	PORTS NOT SELECTED	---	1.4:1	---	MATCHED, 0.4 WATTS
8.3	TERMINATION		---	2.0:1	---	
8.4	SOURCE		---	1.5:1	---	



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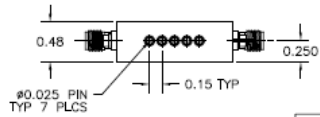
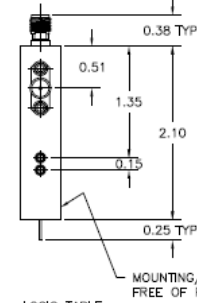
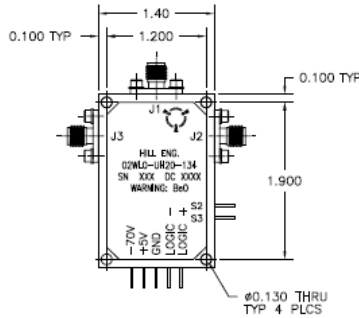
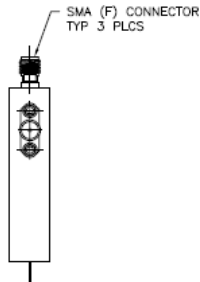
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7/14/00

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None

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% TTL TO 0.50DB OF IL 50% TTL TO ISOL	---	500	nSec	
10.2	SWITCHING RATE		---	50	KHz	
10.3	COMMAND LOGIC	RS-422 BALANCED				
10.4	LOGIC TABLE					SEE OUTLINE DWG 3219
10.5	VIDEO LEAKAGE					NOT SPECIFIED
10.6	POSITION SENSE LOGIC	TTL				
11	D.C. POWER					NOTE! NO OVERVOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED IN THIS SWITCH
11.1	POSITIVE BIAS VOLTAGE		4.8	5.4	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-68	-72	VDC	
11.3	POSTIVE BIAS CURRENT		---	300	MA	
11.4	NEGATIVE BIAS CURRENT		---	50	MA	
12	CONNECTORS					
12.1	RF					SMA(F)
12.2	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		---	6	OZ	
13.2	OUTLINE					SEE DWG 3219
14	DESIGN & CONSTRUCTION					
14.1	OPERATING TEMPERATURE		--40	+71	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					GROUND
14.4	SEAL					GROSS LEAK BUBBLE MEI 112

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE DRN #978	7/21/2000	SFL



- 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: 0.08" BLACK CHARACTERS.
 - LABEL: METALIZED POLYESTER SHEET P/N 127-0010.

LOGIC TABLE

SELECTED PATH	RS-422 LOGIC		POSITION SENSE	
	+	-	S2	S3
J1-J2	0	1	1	0
J1-J3	1	0	0	1



WARNING: TOXIC CONTAINS BERYLLIA DO NOT OPEN THIS DEVICE

<p>UNLESS OTHERWISE SPECIFIED (INDICATED ARE IN INCHES)</p> <p>FINISHES: SERIALS: MOUNTED SURFACE: 21/74 32 x .015 .015/2</p> <p>REMOVE ALL SURFS FROM PARTS</p> <p>UTENSIL: _____</p> <p>TEMP: _____</p> <p>NEXT ASSY USED ON: _____</p> <p>APPLICATIONS: _____</p>	<p>DO NOT SCALE DRAWING</p>	<p>APPROVALS:</p> <p>DESIGNED BY: D.C. BARKER DATE: 7/19/2000</p> <p>CHECKED BY: SP. LEROUX DATE: 7/21/2000</p> <p>MANUFACTURED BY: SA. WARD DATE: 7/21/2000</p> <p>QC: J.C. HILL DATE: 7/21/2000</p> <p>CUSTOMER APPROVALS: _____</p>	<p>DATE: 7/19/2000</p> <p>DATE: 7/21/2000</p> <p>DATE: 7/21/2000</p> <p>DATE: 7/21/2000</p>	<p>COMTECH PST Hill Engineering Division</p> <p>DRAWING TITLE: OUTLINE, 1P2T SWITCH</p> <p>SIZE: B QUOTE CODE: 02WLO DRAWING NO.: 3219 REV: -</p> <p>SCALE: 1/1 PLACING: 3219- SHEET: 1 of 1</p>
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