

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	10/20/06	None	<b>AB-095</b>

**This document describes the performance of a high power 1P4T filter switch with integral T/R switch. 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	500	MHz	
1.2	POWER, CW		--	1450	WATTS	(2.0:1 load)
2	POWER SPECIFICATION	GUARD BAND				
2.1	FREQUENCY		500	550	MHz	
2.2	POWER, CW		--	40	WATTS	
3	POWER SPECIFICATION	OUT OF BAND				
3.1	FREQUENCY		>1300	--	MHz	
3.2	PEAK POWER		--	0.3	WATTS	
4	OPERATING FREQUENCY		100	500	MHz	
5	INSERTION LOSS	JIN to J1,J2,J3		0.7	dB	
5.1		J4,J5,J6 to JOUT	--	1.0	dB	
5.2		JRx to JOUT		1.5	dB	
6	ISOLATION					
6.1		XMT	35		dB	
6.2		RCV	60		dB	
7	PHASE SPECIFICATION					
7.1	MATCHING		--	--	DEG	NOT SPECIFIED
7.2	PHASE TRACKING		--	--	DEG	NOT SPECIFIED
8	VSWR					
8.1	INPUT & OUTPUT	SELECTED PORTS	---	2:1	--	
8.2	PORTS NOT SELECTED		--	--	--	INFINITY (reflective)
8.3	LOAD		---	2:1	--	
8.4	SOURCE		---	1.5:1	--	
9	HARMONICS	INTERNALLY GENERATED		-40	dBc	
9.1	SPURIOUS	INTERNALLY GENERATED		-70	dBc	
10	SWITCHING SPECIFICATIONS					
10.1	SWITCHING SPEED	50% TTL TO 0.5 dB I.L	--	40	µs	
10.2	SWITCHING RATE	50% DUTY		2	kHz	
10.3	VIDEO LEAKAGE	DC to 3 GHz	--	10	V p-p	

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 <b>COMTECH PST</b> <small>Hill Engineering Division</small>	<b>Cage Code:</b>	<b>Title:</b>	<b>Date:</b>	<b>Rev:</b>	<b>Model no:</b>
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	10/20/06	None	<b>AB-095</b>

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
10.4	COMMAND LOGIC TYPE	RS-422				RS-422 with internal terminating resistor
10.5	LOGIC TABLE					SEE DWG below
11	D.C. SPECIFICATIONS					
11.1	POSITIVE 1 BIAS VOLTAGE		4.5	5.5	V	
11.3	POSITIVE 2 BIAS VOLTAGE		+24	+28	V	
11.4	POSITIVE 1 BIAS CURRENT		--	1000	mA	
11.5	POSITIVE 2 BIAS CURRENT		--	2000	mA	
11.6	NOTE: No over-voltage or reverse polarity protection is provided.					
12	CONNECTORS & INTERFACE					
12.1	INPUT, THRU and OUTPUT		--	--	--	SC(F)
12.1.1	RCV					SMA(F)
12.3	DC	P1	--	--	--	DCMM-25
13	MECHANICAL					
13.1	WEIGHT		--	14	LBS	
13.2	SIZE		--	--	IN.	SEE DWG below
13.3	FINISH		--	--	--	SEE DWG below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-0	+60	°C	
14.2	STORAGE TEMPERATURE		-40	+85	°C	
14.3	VIBRATION LEVEL					GND TRANSPORT
14.4	DEVICE SCREENING	LEVEL 2				SCREENING PER HILL ENG QP 121

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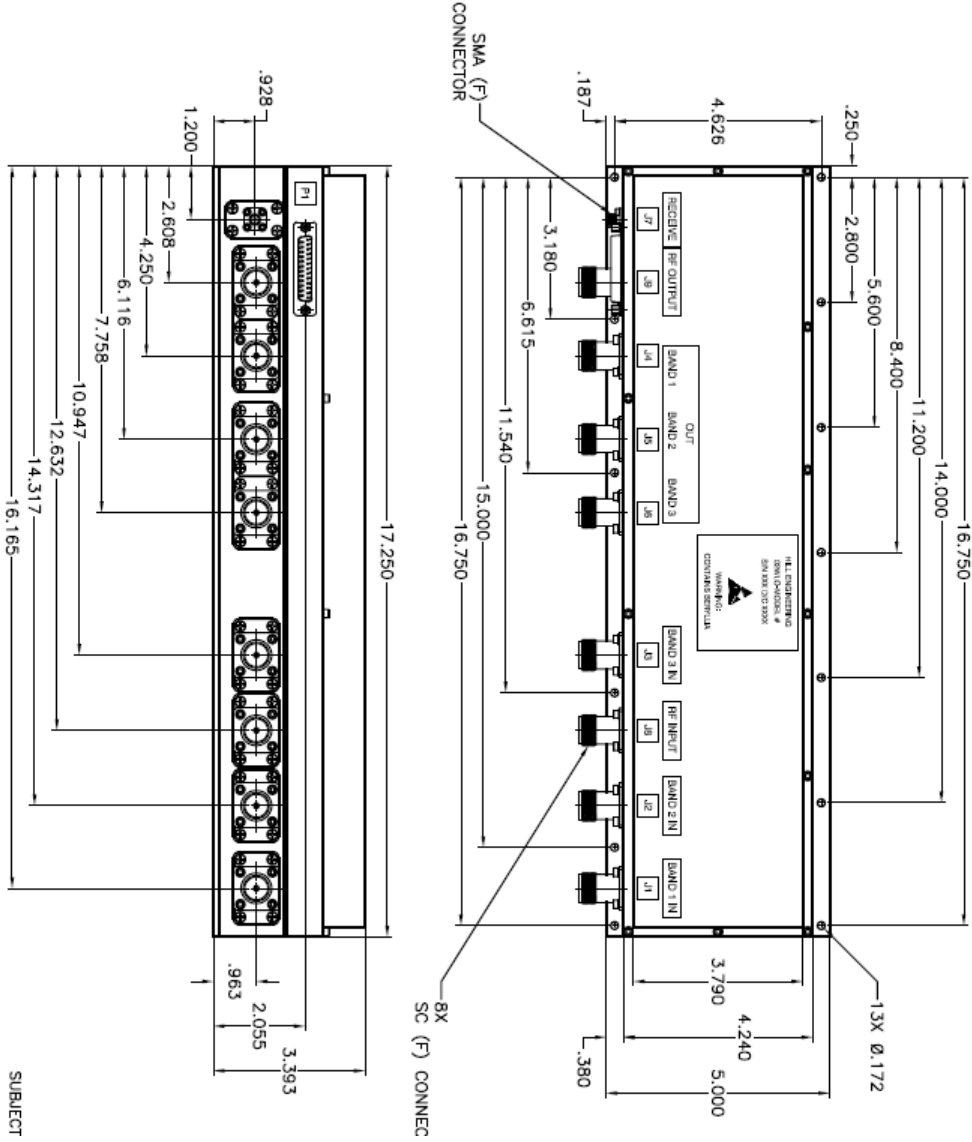
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(subject to change)

Date: 10/20/06

Rev: None

Model no: AB-095



- NOTES:
1. FINISH:
    - 1a. CHEMICAL FILM IAW HILL IP-125 YELLOW
    2. MARKING
  - 2a. MARK PER HILL MEI-147
  - 2b. MARKING: .18" HIGH BLACK CHARACTERS
  - 2c. LABEL: METALIZED POLYESTER SHEET.
- P/N 127-0010

APPLICATIONS			
NEXT ASSY	AB-072		
USED ON			
DO NOT S			