

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> (subject to change)	3/21/06	N/A	<b>UH21-234</b>

**This document describes the performance of 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		490	1010	MHz	
1.2	PEAK POWER			1600	Watts	Into 2.0:1 load
1.2.1	PEAK POWER			1400	Watts	Into 3.0:1 load
1.3	PULSE WIDTH			CW	--	
1.4	DUTY			CW	--	
1.5	CW POWER			1600	Watts	Into 2.0:1 load
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		1010	1150	MHz	
2.2	PEAK POWER			7.5	Watts	
2.3	PULSE WIDTH		CW		--	
2.4	DUTY		CW		--	
2.5	CW POWER			7.5	Watts	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>1150	MHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	--	
3.4	DUTY			CW	--	
3.5	CW POWER			30	dBm	
4	OPERATING FREQUENCY		490	1010	MHz	
5	INSERTION LOSS					
5.1	XMT			0.4	dB	
5.2	RCV			0.8	dB	
6	ISOLATION					
6.1	XMT		60		dB	
6.2	RCV		45		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE
8.2	INPUT & OUTPUT, SELECTED PORTS			1.5:1		
8.3	TERMINATION			2.0:1		At 1600 W input
8.3.1	TERMINATION			3.0:1		At 1400 W input
8.4	SOURCE			1.25:1		
9	HARMONICS & SPURS	Internally generated		-50	dBc	
10	SWITCHING					
10.1	SPEED	50% TTL TO 90% RF		25	us	
10.2	SWITCHING RATE			2	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE			10	Vpp	
10.4	LOGIC TABLE					SEE DWG below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.8	5.4	VDC	
11.2	POSITIVE BIAS VOLTAGE 2			28	VDC	
11.4	POSITIVE BIAS CURRENT 1			700	mA	
11.5	POSITIVE BIAS CURRENT 2			1000	mA	
11.6	VOLTAGE PROTECTION					THIS UNIT DOES NOT HAVE OVERVOLTAGE OR REVERSE POLARITY PROTECTION ON ANY BIAS PORT
11.7	POWER ON SEQUENCE					TO PREVENT DAMAGE TO THE UNIT, APPLY THE +5VDC FIRST, THEN APPLY THE +28VDC
12	CONNECTORS					
12.1	RF	XMT				SCF
12.2	RF	RCV				SMAF
12.3	DC					25 pin D submin
13	MECHANICAL					
13.1	WEIGHT			4.5	Lbs.	
13.2	OUTLINE					SEE DWG below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					Ground Transport
15	ESS SCREENING					48 Hrs B/I

