

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	PRODUCT DATA (subject to change)	4/1/98	None	UH20-056

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		400	550	MHz	
1.2	PEAK POWER			750	Watts	
1.3	PULSE WIDTH			CW	--	
1.4	DUTY			CW	--	
1.5	CW POWER			750	Watts	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		550	650	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			>650	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		400	550	MHz	
5	INSERTION LOSS					
5.1				0.45	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		60		dB	
6.2	OUTPUT TO OUTPUT		60		dB	
7	PHASE					NOT SPECIFIED
8	VSWR					
8.1	PORTS NOT SELECTED					INFINITE

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8	VSWR (CONT.)					
8.2	INPUT & OUTPUT, SELECTED PORTS			1.5:1		
8.3	TERMINATION			2.0:1		
8.4	SOURCE			1.25:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	MEASURED AT INCIDENT POWER					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	50% TTL TO 90% RF		4	uS	
10.2	SWITCHING RATE			2	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE			25	Vpp	
10.4	LOGIC TABLE					SEE DWG 3230
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, THE +5VDC SHOULD BE APPLIED FIRST, THEN APPLY THE +28VDC
12	CONNECTORS					
12.1	RF					NF
12.3	DC					DEM9P
13	MECHANICAL					
13.1	WEIGHT			4.5	Lbs.	
13.2	OUTLINE					SEE DWG 3230
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					QP-121 Level 2

