



Cage Code: 02WLO

Title: **PRODUCT DATA**
(subject to change)

Date: 7/29/2009

Rev: None

Model no: **HH20-021**

(15H04271-01)

This document describes the performance of a high power 1P2T switch. This is a cold switched design i.e.; switched while RF is off. 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		1.5	30	MHz	
1.2	PEAK POWER	Max input , including OVERSHOOT		1000	Watts	
1.3	PULSE WIDTH			CW	-	
1.4	DUTY			100	%	
1.5	CW POWER			1000	Watts	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		30	88	MHz	
2.2	PEAK POWER			10	Watts	
2.3	PULSE WIDTH			CW	-	
2.4	DUTY			100	%	
2.5	CW POWER			10	Watts	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>88	MHz	
3.2	PEAK POWER			30	dBm	
3.3	PULSE WIDTH			CW	μs	
3.4	DUTY			CW	%	
3.5	CW POWER			CW	dBm	
4	OPERATING FREQUENCY		1.5	30	MHz	
5	INSERTION LOSS					
5.1			-	0.25	dB	
6	ISOLATION					
6.1	J1-J3, J2-J3 TRANSMIT		27	-	dB	
6.2	J2-J3, J1-J3 TRANSMIT		27	-	dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED
8	VSWR					
8.1	PORTS NOT SELECTED					Reflective
8.2	INPUT & OUTPUT, SELECTED PORTS			1.25:1	-	
8.3	TERMINATION			2.5:1	-	



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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR (CONT.)					
8.4	SOURCE			1.5:1	-	
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		50	uS	
10.2	SWITCHING RATE			2	kHz	
10.3	COMMAND LOGIC	RS-422				
10.4	VIDEO LEAKAGE			TBD	Vpp	
10.4	LOGIC TABLE					SEE DWG 4272 (below)
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.8	5.2	VDC	
11.2	POSITIVE BIAS VOLTAGE 2		26	32	VDC	
11.4	POSITIVE BIAS CURRENT 1			TBD	AMPS	
11.5	POSITIVE BIAS CURRENT 2			TBD	A	
11.6	VOLTAGE PROTECTION					THIS UNIT DOES NOT HAVE OVERVOLTAGE OR REVERSE POLARITY PROTECTION ON ANY BIAS PORT
12	CONNECTORS					
12.1	RF					NF
12.2	DC					DCM-25
13	MECHANICAL					
13.1	WEIGHT			4.3	Lbs.	
13.2	OUTLINE				Inches	SEE DWG 4272 (below)
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		0	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+70	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT
15	ESS SCREENING					QP-121 LEVEL 2

