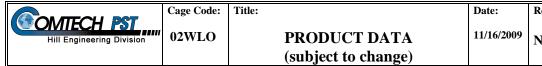


This document describes the performance of a high power 1P2T switch. This is a cold switched design i.e.; switched while RF is off. Proper bias levels must be applied when operating this device.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		2.0	4.0	GHz	
1.2	PEAK POWER	At input connector		1000	WATTS	Absolute max, including reflections
1.3	PULSE WIDTH			42	μs	
1.4	DUTY			15	%	
1.5	AVG / CW POWER			150	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND A				
2.1	FREQUENCY		4.0	6.0	GHz	
2.2	PEAK POWER			1000	WATTS	
2.3	PULSE WIDTH			42	μs	
2.4	DUTY			15	%	
2.5	CW POWER			150	WATTS	
3	POWER SPECIFICATIONS	GUARD BAND B				
3.1	FREQUENCY		6.0	8.0	GHz	
3.2	PEAK POWER			20	WATTS	
3.3	PULSE WIDTH			0.5	μs	
3.4	DUTY			5	%	
3.5	CW POWER			1	WATTS	
4	POWER SPECIFICATIONS	OUT OF BAND				
4.1	FREQUENCY		>8.0		GHz	
4.2	PEAK POWER			0.03	WATTS	
4.3	PULSE WIDTH		CW		μs	
4.4	DUTY		CW		%	
4.5	CW POWER			0.03	WATTS	
5	OPERATING FREQUENCY		2.0	4.0	GHz	
6	INSERTION LOSS					
6.1				1.3	dB	



ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
7	ISOLATION					
7.1	J2 (Tx) to J3 (Rcv)	Tx (LOGIC 0), J1 TERM.	40		dB	
8	PHASE					NOT SPECIFIED
9	VSWR					
9.1	PORTS NOT SELECTED					INFINITE
9.2	INPUT & OUTPUT, SELECTED PORTS			1.4:1		
9.3	LOAD			2.0:1		
9.4	SOURCE			1.2:1		
10	HARMONICS & SPURS					
10.1	INTERNALLY GENERATED		-60		dBc	
10.2	MEASURED AT INCIDENT POWER			0	WATTS	
11	SWITCHING					
11.1	SPEED	50% TTL TO 0.5dB		3	μs	Microseconds
11.2	SWITCHING RATE			50	kHz	
11.3	COMMAND LOGIC	RS-422				
11.4	VIDEO LEAKAGE			5	V p-p	
11.5	LOGIC TABLE					SEE DWG 3739 below
12	D.C. POWER					
12.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
12.2	NEGATIVE BIAS VOLTAGE		-66	-74	VDC	
12.4	POSITIVE BIAS CURRENT			300	mA	
12.5	NEGATIVE BIAS CURRENT			50	mA	
	NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.					
13	CONNECTORS					
13.1	RF					NF
13.3	DC					9 PIN
14	MECHANICAL					
14.1	WEIGHT			14	Oz.	
14.2	OUTLINE					SEE DWG 3739 below
15	ENVIRONMENTAL					
	OPERATING		0	170	°C	
15.1	TEMPERATURE		-0	+70		
15.2	STORAGE TEMPERATURE		-55	+85	°C	
15.3	VIBRATION LEVEL					AIRBORNE SUBSONIC



Cage Code:

Title:

PRODUCT DATA (subject to change)

Date: Rev:

11/16/2009

v: Model no:

None H

H22-085

