

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WL0	<b>PRODUCT DATA</b> <b>(subject to change)</b>	12/12/03	None	<b>L26-006</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		6	18	GHz	
1.2	PEAK POWER			10	WATTS	
1.3	PULSE WIDTH		CW		μS	
1.4	DUTY		CW		%	
1.5	CW POWER			10	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		18	19	GHz	
2.2	PEAK POWER			1	WATTS	
2.3	PULSE WIDTH		CW		μS	
2.4	DUTY		CW		%	
2.5	CW POWER			1	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY		>19		GHz	
3.2	PEAK POWER			0.003	WATTS	
3.3	PULSE WIDTH		CW		μS	
3.4	DUTY				%	
3.5	CW POWER			0.003	WATTS	
4	OPERATING FREQUENCY		6	18	GHz	
5	INSERTION LOSS					
5.1	7.5 – 16.5 GHz			1.7	dB	
5.2	16.5 – 18 GHz			1.8	dB	
6	ISOLATION					
6.1	7.5 – 16 GHz			40	dB	
6.2	16 – 18 GHz			35	dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	TRACKING					NOT SPECIFIED



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8	VSWR					
8.1	INPUT & OUTPUT, SELECTED PORTS		---	1.8:1		
8.2	PORTS NOT SELECTED					INFINITE (reflective)
8.3	TERMINATION		---	2.0:1		
8.4	SOURCE		---	1.6:1		
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		---	-40	dBc	
9.2	MEASURED AT INCIDENT POWER		---	0	dbm	
10	SWITCHING					
10.1	TRANSITION TIME	50% J2 (OFF) TO 90% J3 (ON), 50% J3 (OFF) TO 90% J2 (ON)		50	ns	
10.2	SWITCHING RATE			1	MHz	
10.3	VIDEO LEAKAGE					NOT SPECIFIED
10.4	COMMAND LOGIC TYPE					TTL
10.4	LOGIC TABLE					SEE DWG 03H02194-01below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.50	5.50	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-26	-30	VDC	
11.4	POSITIVE BIAS CURRENT			300	mA	
11.5	NEGATIVE BIAS CURRENT			40	mA	
NOTE: NO OVER-VOLTAGE OR REVERSE POLARITY PROTECTION IS PROVIDED WITH THIS SWITCH.						
12	CONNECTORS					
12.1	RF					SMAF
12.3	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		---	3.5	Oz.	
13.2	OUTLINE					SEE DWG03H02194-01 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-50	+85	°C	
14.2	STORAGE TEMPERATURE		-50	+85	°C	
14.3	VIBRATION LEVEL					Ground mobile/shipboard

Federal Cage Code 02WL0

