

	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b>	10/5/99	None	L12-007

This document describes the performance of a high power 1P1T switch. This is a cold switched design i. e; switched while RF is off. This switch may be hot switched at +37 dBm or less. Proper bias levels per item no.11 must be applied when operating this device.

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		1.00	2.00	GHz	
1.2	PEAK POWER		--	20	WATTS	
1.3	PULSE WIDTH		CW	--	μS	
1.4	DUTY		--	CW	%	
1.5	AVERAGE POWER		--	--	WATTS	N/A
1.6	CW POWER		--	20	WATTS	
2	POWER SPECIFICATION	GUARD BAND				
2.1	FREQUENCY		2.00	3.00	GHz	
2.2	PEAK POWER		--	1	WATTS	
2.3	PULSE WIDTH		CW	--	μS	
2.4	DUTY		CW	--	%	
2.5	AVERAGE POWER		--	--	WATTS	N/A
2.6	CW POWER		--	1	WATTS	
3	POWER SPECIFICATION	OUT OF BAND				
3.1	FREQUENCY		>3.00	--	GHz	
3.2	PEAK POWER		--	0.003	WATTS	
3.3	PULSE WIDTH		CW	--	μS	
3.4	DUTY		CW	--	%	
3.5	AVERAGE POWER		--	--	WATTS	
3.6	CW POWER		--	0.003	WATTS	
4	OPERATING FREQUENCY		1.00	2.00	GHz	
5	INSERTION LOSS					
5.1			--	0.5	dB	
6	ISOLATION					
6.1	INPUT TO OUTPUT		40		dB	
7	PHASE SPECIFICATION					
7.1	MATCHING		--	--	DEG	NOT SPECIFIED
7.2	PHASE TRACKING		--	--	DEG	NOT SPECIFIED



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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8	VSWR					
8.1	INPUT & OUTPUT	SELECTED PORTS	---	1.8:1	--	
8.2	PORTS NOT SELECTED		--	--	--	INFINITY
8.3	TERMINATION		---	1.8:1	--	
8.4	SOURCE		---	1.8:1	--	
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		--	--	dBc	NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER	--	0	WATTS	
10	SWITCHING SPECIFICATIONS					
10.1	SWITCHING SPEED	50% LOGIC TO 90% RF	--	50	nS	
10.2	SWITCHING RATE		--	500	kHz	
10.3	VIDEO LEAKAGE		--	--	Vpp	NOT SPECIFIED
10.4	COMMAND LOGIC TYPE					TTL
10.5	LOGIC TABLE					SEE DWG 2258
11	D.C. SPECIFICATIONS					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	V	
11.2	NEGATIVE BIAS VOLTAGE		-26	-30	V	
11.3	POSITIVE BIAS CURRENT		--	300	mA	
11.4	NEGATIVE BIAS CURRENT		--	40	mA	
11.5	NOTE: No over-voltage or reverse polarity protection is provided in this switch.					
12	CONNECTORS & INTERFACE					
12.1	RF					SMA(F)
12.2	DC					SOLDER PINS
13	MECHANICAL					
13.1	WEIGHT		--	4	OZ	
13.2	SIZE		--	--	IN.	SEE DWG 2258
13.3	FINISH		--	--	--	SEE DWG 2258
14	ENVIROMENTAL					
14.1	OPERATING TEMPERATURE		-50	+85	C	
14.2	STORAGE TEMPERATURE		-50	+85	C	
14.3	VIBRATION LEVEL					GND TRANSPORT
14.4	DEVICE SCREENING	LEVEL 1				SCREENING PER HILL ENGINEERING QUALITY PROCEDURE 121

