


	Cage Code:	Title:	Date:	Rev:	Model no:
	02WLO	<b>PRODUCT DATA</b> <b>(subject to change)</b>	3/4/03	None	<b>M32-007</b>

**This document describes the performance of a high power SP3T surface mount switch. This is a cold switched design i.e; switched while RF is off. Proper bias levels per item no. 11 must be applied when operating this device. Bias is to be provided by an external driver. No driver is supplied with this switch. A suitable driver schematic will be furnished upon request. This is a BeO free device.**

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
1	POWER SPECIFICATION	IN BAND				
1.1	FREQUENCY		900	1300	MHz	
1.2	PEAK POWER			500	WATTS	
1.3	PULSE WIDTH			13	Us	
1.4	DUTY			11	%	
1.5	AVG POWER			55	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		1300	2000	MHz	
2.2	PEAK POWER			50	WATTS	
2.3	PULSE WIDTH			13	Us	
2.4	DUTY			11	%	
2.5	CW POWER			5.5	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>2000	MHz	
3.2	PEAK POWER			0.2	WATTS	
3.3	PULSE WIDTH				CW	
3.4	DUTY				CW	
3.5	CW POWER			0.2	WATT	
4	OPERATING FREQUENCY		900	1300	MHz	
5	INSERTION LOSS			0.75	DB	
6	ISOLATION	INPUT TO OUTPUT	40		DB	
7	PHASE	MATCH/TRACK				NOT SPECIFIED
8	VSWR					
8.1	INPUT			1.3:1		
8.2	OUTPUT	OFF ARM		1.60:1		
8.3	SOURCE AND LOAD			1.60:1		

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2	INTERMODULATION				dBm	
10	SWITCHING					
10.1	SPEED	TO 0.50DB		1.0	Usec	
10.2	SWITCHING RATE			50	KHz	
10.3	COMMAND LOGIC	EXTERNAL DRIVER, SPEC TBD				SEE OUTLINE DWG 3053
10.4	LOGIC TABLE					SEE OUTLINE DWG 3053
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE			2.0	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-50	-100	VDC	
11.3	POSTIVE BIAS CURRENT		60	80	MA	
11.4	NEGATIVE BIAS CURRENT	EXTERNAL RESISTOR	5	15	MA	
12	CONNECTORS					
12.1	RF					SOLDER TABS
12.2	DC					SOLDER TABS
13	MECHANICAL					
13.1	WEIGHT			1.2	OZ	
13.2	OUTLINE					SEE DWG 3053
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-20	+60	°C	
14.2	STORAGE TEMPERATURE		-20	+60	°C	
14.3	VIBRATION LEVEL					Ground Mobile
14.4	DEVICE SCREENING	LEVEL 1				QP-121 LEVEL 1



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