



Cage Code: <b>02WLO</b>	Title: <b>PRODUCT DATA</b> <b>(subject to change)</b>	Date: 1/23/04	Rev: None	Model no: <b>M21-044</b>
----------------------------	---	------------------	--------------	-----------------------------

**This document describes the performance of a high power 1P2T switch. This is a cold switched designed to switch cold; i.e; switching should occur only when RF is off. 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		250	1000	MHz	
1.2	PEAK POWER			200	WATTS	
1.3	PULSE WIDTH		--	20	uS	
1.4	DUTY		--	50%	%	
1.5	AVERAGE POWER		--	100	WATTS	
1.6	CW POWER		--	100	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		1000	1150	GHz	
2.2	PEAK POWER		--	2	WATTS	
2.3	PULSE WIDTH		--	CW	uS	
2.4	DUTY		--	CW	%	
2.5	AVERAGE POWER		--	2	WATTS	
2.6	CW POWER		--	2	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>1150	MHz	
3.2	PEAK POWER		--	0.03	WATTS	
3.3	PULSE WIDTH		CW	--	uS	
3.4	DUTY		CW	--	%	
3.5	AVERAGE POWER		--	--	WATTS	
3.6	CW POWER		--	0.03	WATTS	
4	OPERATING FREQUENCY		250	1000	MHz	
5	INSERTION LOSS			0.9	dB	
6	ISOLATION					
6.1	ISOLATION	ANY PORT	60		dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT	SELECTED PORTS	--	1.8:1	--	



Cage Code: 02WLO

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

Date: 1/23/04

Rev: None

Model no: **M21-044**

ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
8.2	OUTPUT	SELECTED PORTS	--	1.7:1	--	
8.3	PORT NOT SELECTED		--	∞	--	Infinity
8.4	TERMINATION		--	2:1	--	
8.5	SOURCE		--	1.2:1	--	
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
10	SWITCHING					
10.1	SPEED	TO 0.50DB	--	800	ns	
10.2	SWITCHING RATE		--	50	KHz	
10.3	COMMAND LOGIC	TTL				
10.4	LOGIC TABLE					SEE DWG 03H02194-01 below
10.5	POSITION SENSE					NOT AVAILABLE
10.6	VIDEO LEAKAGE					NOT SPECIFIED
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-95	-105	VDC	
11.3	POSTIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			60	mA	
12	CONNECTORS					
12.1	RF					SMA
12.2	DC					Solder pins
13	MECHANICAL					
13.1	WEIGHT		--	6.5	OZ	
13.2	OUTLINE					SEE DWG 03H02194-01 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-20	+60	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					Airborne subsonic
14.4	DEVICE SCREENING	LEVEL 2				QP-121



Cage Code: 02WL0

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

Date: 1/23/04

Rev: None

Model no: **M21-044**

