



Cage Code:
02WLO

Title:
PRODUCT DATA
(subject to change)

Date:
4/7/01

Rev:
None

Model no:
H23-001

This document describes the performance of a high power 1P2T switch. This is a cold switched designed to switch cold; i.e; switching occurs 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		4.0	8.0	GHz	
1.2	PEAK POWER		--	1000	WATTS	
1.3	PULSE WIDTH		--	5	µS	
1.4	DUTY		--	4	%	
1.5	AVERAGE POWER		--	40	WATTS	
1.6	CW POWER		--	--	WATTS	
2	POWER SPECIFICATIONS	GUARD BAND				
2.1	FREQUENCY		8.0	8.5	GHz	
2.2	PEAK POWER		--	20	WATTS	
2.3	PULSE WIDTH		--	0.5	µS	
2.4	DUTY		--	5	%	
2.5	AVERAGE POWER		--	1	WATTS	
2.6	CW POWER		--	--	WATTS	
3	POWER SPECIFICATIONS	OUT OF BAND				
3.1	FREQUENCY			>8.5	GHz	
3.2	PEAK POWER		--	0.03	WATTS	
3.3	PULSE WIDTH		CW	--	µS	
3.4	DUTY		CW	--	%	
3.5	AVERAGE POWER		--	--	WATTS	
3.6	CW POWER		--	0.03	WATTS	
4	OPERATING FREQUENCY		4.0	8.0	GHz	
5	INSERTION LOSS		--	0.9	dB	
6	ISOLATION					
6.1	ISOLATION	INPUT TO OUTPUT	60	--	dB	
6.1	ISOLATION	OUTPUT TO OUTPUT	60	--	dB	
7	PHASE					
7.1	MATCHING					NOT SPECIFIED
7.2	PHASE TRACKING					NOT SPECIFIED
8	VSWR					
8.1	INPUT	SELECTED PORTS	--	1.80:1	--	



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8.2	OUTPUT	SELECTED PORTS	--	1.80:1	--	
8.3	PORT NOT SELECTED		--	∞	--	
8.4	TERMINATION		--	2.5:1	--	
	VSWR					
8.5	SOURCE		--	1.2:1	--	
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED					NOT SPECIFIED
9.2		MEASURED AT INCIDENT POWER		0	dBm	
10	SWITCHING					
10.1	SPEED	TO 0.50DB	--	1	μS	
10.2	SWITCHING RATE		--	100	KHz	
10.3	COMMAND LOGIC	TTL				
10.4	LOGIC TABLE					SEE OUTLINE DWG 2215 below
10.5	VIDEO LEAKAGE					NOT SPECIFIED
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE		4.8	5.2	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-48	-54	VDC	
11.3	POSTIVE BIAS CURRENT			300	mA	
11.4	NEGATIVE BIAS CURRENT			40	mA	
12	CONNECTORS					
12.1	RF					SMA(F)
12.2	DC					SOLDER PIN
13	MECHANICAL					
13.1	WEIGHT		--	3.0	OZ	
13.2	OUTLINE					SEE DWG 2215 below
14	ENVIRONMENTAL					
14.1	OPERATING TEMPERATURE		-40	+55	°C	
14.2	STORAGE TEMPERATURE		-55	+85	°C	
14.3	VIBRATION LEVEL					SHELTERED GND MOBILE
14.4	DEVICE SCREENING	LEVEL 2				QP-121

