	Cage Code:	Title:	Date:	Rev:	Model no:
HILL INDIANTING DECOURS	02WL0	PRODUCT DATA	11/25/2009	N/A	M22-115
-		(subject to change)			

This document describes the performance of a high power 1P2T T/R switch. This is a cold-switched design i.e.; switched while RF is off. **Proper bias per section 11 must be applied before operating this switch.**

	CONDITIONS	MIN	MAX	UNITS	COMMENTS
POWER SPECIFICATION	IN BAND				
FREQUENCY		800	3000	MHz	
PEAK POWER			300	WATTS	
PULSE WIDTH			CW		
DUTY			CW	%	
CW POWER			300	WATTS	
POWER SPECIFICATIONS	GUARD BAND				
FREQUENCY		3000	3120	MHz	
PEAK POWER			10	WATTS	
PULSE WIDTH			CW		
CW POWER			10	WATTS	
POWER SPECIFICATIONS	OUT OF BAND				
FREQUENCY		>3120		MHz	
PEAK POWER			30	dBm	
PULSE WIDTH			CW	μS	
DUTY			CW	%	
CW POWER			30	dBm	
OPERATING FREQUENCY		1000	3000	MHz	
INSERTION LOSS			1.3	dB	
ISOLATION					
		40		dB	
PHASE	MATCH/TRACK				NOT SPECIFIED
VSWR					
PORT SELECTED			2.0:1		
PORT NOT SELECTED			2.0:1		
LOAD			2.0:1		
SOURCE			2.0:1		
	FREQUENCY PEAK POWER PULSE WIDTH DUTY CW POWER POWER SPECIFICATIONS FREQUENCY PEAK POWER PULSE WIDTH CW POWER POWER SPECIFICATIONS FREQUENCY PEAK POWER POWER SPECIFICATIONS FREQUENCY PEAK POWER PULSE WIDTH DUTY CW POWER OPERATING FREQUENCY INSERTION LOSS ISOLATION PHASE VSWR PORT SELECTED PORT NOT SELECTED	FREQUENCY PEAK POWER PULSE WIDTH DUTY CW POWER POWER SPECIFICATIONS GUARD BAND FREQUENCY PEAK POWER PULSE WIDTH CW POWER POWER SPECIFICATIONS OUT OF BAND FREQUENCY PEAK POWER PULSE WIDTH DUTY CW POWER PULSE WIDTH DUTY CW POWER OPERATING FREQUENCY INSERTION LOSS ISOLATION PHASE MATCH/TRACK VSWR PORT SELECTED PORT NOT SELECTED LOAD	FREQUENCY PEAK POWER PULSE WIDTH DUTY CW POWER POWER SPECIFICATIONS GUARD BAND FREQUENCY PEAK POWER PULSE WIDTH CW POWER POWER SPECIFICATIONS OUT OF BAND FREQUENCY PEAK POWER POWER SPECIFICATIONS OUT OF BAND FREQUENCY PEAK POWER PULSE WIDTH DUTY CW POWER OPERATING FREQUENCY INSERTION LOSS ISOLATION PHASE MATCH/TRACK VSWR PORT SELECTED PORT NOT SELECTED LOAD	FREQUENCY 800 3000 PEAK POWER 300 PULSE WIDTH CW DUTY CW CW POWER 300 POWER SPECIFICATIONS GUARD BAND FREQUENCY 3000 3120 PEAK POWER 10 POWER SPECIFICATIONS OUT OF BAND 10 FREQUENCY >3120 >3120 PEAK POWER 30 0 PULSE WIDTH CW CW DUTY CW CW CW POWER 30 3000 OPERATING FREQUENCY 1000 3000 INSERTION LOSS 1.3 ISOLATION 40 PHASE MATCH/TRACK VSWR PORT SELECTED 2.0:1 PORT NOT SELECTED 2.0:1 LOAD 2.0:1	FREQUENCY 800 3000 MHz PEAK POWER 300 WATTS PULSE WIDTH CW CW DUTY CW % CW POWER 300 WATTS POWER SPECIFICATIONS GUARD BAND MHz PEAK POWER 10 WATTS PULSE WIDTH CW WATTS POWER SPECIFICATIONS OUT OF BAND MHz PEAK POWER 30 dBm PULSE WIDTH CW μS DUTY CW % CW POWER 30 dBm OPERATING FREQUENCY 1000 3000 MHz INSERTION LOSS 1.3 dB ISOLATION 40 dB PHASE MATCH/TRACK VSWR PORT SELECTED 2.0:1 PORT NOT SELECTED 2.0:1 LOAD 2.0:1

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ITEM NO	CHARACTERISTIC	CONDITIONS	MIN	MAX	UNITS	COMMENTS
9	HARMONICS & SPURS					
9.1	INTERNALLY GENERATED		60		dBc	
10	SWITCHING					
10.1	SPEED	50% LOGIC to 10/90% RF		30	uS	
10.2	SWITCHING RATE			2	KHz	
10.3	VIDEO LEAKAGE			10	Vpp	Across 50 Ohms
10.4	COMMAND LOGIC	RS-422				
10.5	LOGIC TABLE					SEE DWG 03H04238-01 below
11	D.C. POWER					
11.1	POSITIVE BIAS VOLTAGE 1		4.80	5.20	VDC	
11.2	NEGATIVE BIAS VOLTAGE		-26	-32.0	VDC	
11.3	POSITIVE BIAS CURRENT 1			300	mA	
11.4	NEGATIVE BIAS CURRENT			100	mA	
11.5	NOTE : Voltage Protection – Thi	is unit does not have or	ver-voltag	e or revers	se polarity p	rotection on any bias port.
12	CONNECTORS					
12.1	RF					Type NF
12.3	DC					DAMM-9
13	MECHANICAL					
13.1	WEIGHT			1	lb	
13.2	OUTLINE					See Dwg 03H04238-01 below
	END (ID ON MENTAL					
14	ENVIRONMENTAL				00	
14.1	OPERATING TEMPERATURE		0	+50	°C	
14.2	STORAGE TEMPERATURE		-20	+55	°C	
14.3	VIBRATION LEVEL					GROUND TRANSPORT



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