



PRODUCT SPECIFICATION
MODEL NO. ES0008
SPDT SWITCH

PS-ES0008 REV -

PARAMETER	VALUE	UNITS
1.0 High Power Input Specifications		-
1.1 Frequency Range	4.0 – 8.0	GHz
1.2 Power, Peak (Maximum)	2000	Watts
1.3 Power, Average (Maximum)	80	Watts
1.4 Duty (Maximum)	4	%
1.5 RF Pulse Width (Maximum)	10	us
2.0 Microwave Switch Specifications		-
2.1 Frequency Range	4.0 – 8.0	GHz
2.2 Isolation (Minimum)	45	dB
2.3 Insertion Loss (Maximum)	1.6	dB
2.4 VSWR (Maximum)	1.8:1	-
2.5 RF Switching Speed (Maximum) (50% control to 10/90% RF)	2.0	us
2.6 Control Switching Freq. (Maximum)	100	KHz
3.0 General Specifications		-
3.1 Connectors		-
3.1.1 RF (J1, J2, J3)	SMA-F	
3.1.2 Control (E1)	SMA-F	
3.1.3 Bias	Solder pins	
3.2 Control		
3.2.1 Logic	TTL, unbalanced	-
3.2.2 State Table		
	<u>E1</u> <u>RF Path</u>	
	0 J1 to J2	
	1 J1 to J3	
3.3 DC Power Requirements		
3.3.1 Positive Supply	+5+/-5%	Vdc
3.3.2 Positive Supply Current (Max)	300	mA
3.3.3 Negative Supply Voltage	-70v +/- 2%	Vdc
3.3.4 Negative Supply Current (Max)	100	mA
3.4 Environmental Requirements		
3.4.1 Temperature		
3.4.1.1 Operating	-55 to +85	Degrees C
3.4.1.2 Storage	-55 to +125	Degrees C
3.4.2 Cooling	Conduction cooling through surface of switch body	
3.4.3 Seal	Hermetic	
3.4.4 Altitude (Maximum)	50,000	feet

3.5 Dimensions Refer to outline drawing

ENG: _____ MFG ENG: _____ TEST ENG: _____ QC: _____
DATE: _____ DATE : _____ DATE : _____ DATE: _____