



PRODUCT SPECIFICATION
MODEL NO. ES0006
SPDT SWITCH

PS-ES0006 REV -

PARAMETER		VALUE	UNITS
1.0 High Power Input Specifications			-
1.1	Frequency Range	1.0 – 2.0	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	1.0 – 2.0	GHz
2.2	Isolation (Minimum)	55	dB
2.3	Insertion Loss (Maximum)	0.7	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	
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ENG:_____	MFG ENG:_____	TEST ENG:_____	QC:_____
DATE:_____	DATE :_____	DATE :_____	DATE:_____
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