



PRODUCT SPECIFICATION
MODEL NO. ES0165
SPDT SWITCH

PS-ES0165 REV C

PARAMETER	VALUE	UNITS
1.0 High Power Input Specifications		-
1.1 Frequency Range	4.0 to 8.0	GHz
1.2 Power, Peak (Maximum)	2000	Watts
1.3 Power, Average (Maximum)	80	Watts
1.4 Duty (Maximum)	4.0	%
1.5 RF Pulse Width (Maximum)	10.0	us
1.6 Pulse Rep Rate (Maximum)	100	KHz
1.7 Spurious Output	-50	dBc
1.8 Harmonics	-30	dBc
2.0 Microwave Switch Specifications		-
2.1 Frequency Range	4.0 to 8.0	GHz
2.2 Isolation (Minimum)	40	dB
2.3 Insertion Loss (Maximum)		
2.3.1 FROM 4 GHz TO 7.5 GHz	1.2	dB
2.3.2 FROM 7.5 GHz TO 8 GHz	1.5	dB
2.4 VSWR (Maximum)	2.0:1	-
2.5 RF Switching Speed (Maximum)	1	us
2.6 Control Switching Freq. (Maximum)	100	KHz
3.0 General Specifications		
3.1 Connectors		-
3.1.1 RF/Control	SMA-F	
3.1.2 Bias	Solder Pins	
3.2 Control		
3.2.1 Logic	TTL	-
3.2.2 State Table		
	<u>TTL CNTL</u>	<u>RF Path</u>
	1	J1 to J2
	0	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 +/-5%	Vdc
3.3.4 Negative Supply Current (Max)	100	mA
3.4 Environmental Requirements		
3.4.1 Temperature		
3.4.1.1 Operating	-20 to +55	Degrees C
3.4.1.2 Storage	-20 to +70	Degrees C
3.4.2 Cooling: Conduction cooling through surface of switch body		
3.5 Dimensions	Refer to outline drawing	

REV. C ECN: 2578 13 APR. 2000 Initials: _____