



PRODUCT SPECIFICATION
MODEL NO. ES6540 SPDT SWITCH

PS-ES6540 REV -

PARAMETER	VALUE	UNITS						
1.0 High Power Input Specifications								
1.1 Frequency Range	2.7 – 2.9	GHz						
1.2 Power, Peak (Maximum)	800	Watts						
1.3 Power, Average (Maximum)	40	Watts						
1.4 Duty (Maximum)	4	%						
1.5 RF Pulse Width (Maximum)	100	us						
2.0 Microwave Switch Specifications								
2.1 Frequency Range	2.7 – 2.9	GHz						
2.2 Isolation (Minimum)	20	dB						
2.3 Insertion Loss (Maximum)	1.2	dB						
2.4 VSWR (Maximum)	1.4:1	-						
2.5 RF Switching Speed (Maximum) (50% control to 10/90% RF)	1.0	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								
	<table><tr><th><u>E1</u></th><th><u>RF Path</u></th></tr><tr><td>0</td><td>J1 to J2</td></tr><tr><td>1</td><td>J1 to J3</td></tr></table>	<u>E1</u>	<u>RF Path</u>	0	J1 to J2	1	J1 to J3	
<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)	70	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 ES6540 outline drawing							