



PRODUCT SPECIFICATION
MODEL NO. ES0190
SP4T SWITCH

PS-ES0190REV -

PARAMETER	VALUE	UNITS
1.0 High Power Input Specifications		-
1.1 Frequency Range	2.4-2.5	GHz
1.2 Power, Peak (nominal)	10	Watts
1.3 Power, Average (nominal)	10	Watts
1.4 Duty (Maximum)	CW	%
1.5 RF Pulse Width (Maximum)	CW	us
1.6 Load VSWR (Maximum)	2.5:1	-
2.0 Microwave Switch Specifications		-
2.1 Frequency Range	2.4-2.5	GHz
2.2 Isolation (Minimum)	55	dB
2.3 Insertion Loss (Maximum)	1.3	dB
2.4 VSWR (input)	1.8:1	-
2.5 RF Switching Speed (Maximum)	0.5	us
2.6 Control Switching Freq. (Maximum)	100	KHz

3.0 General Specifications

3.1 Connectors		-
3.1.1 RF	SMA	
3.1.2 Control/Bias	DEM-15P	
3.2 Logic,	TTL	
3.2.1 State Table		

INPUT CONTROL LINES				
A+	A-	B+	B-	RF PATH SELECTED
0	1	0	1	J1 to J2
0	1	1	0	J1 to J3
1	0	0	1	J1 to J4
1	0	1	0	J1 to J5

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	-28v +/-5%	Vdc
3.3.4 Negative Supply Current (Max)	150	mA

3.4 Environmental Requirements

3.4.1 Temperature		
3.4.1.1 Operating	-40 to +85	Degrees C
3.4.1.2 Storage	-55 to +100	Degrees C
3.4.2 Cooling: Conduction cooling through surface of switch body		

3.5 Dimensions Refer to ES0190 outline drawing

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

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