



PRODUCT SPECIFICATION
MODEL NO. ES0001
T / R Switch, SP2T

PS-ES0001 REV -

PARAMETER	VALUE	UNITS
1.0 High Power Input Specifications		-
1.1 Frequency Range	225 to 400	MHz
1.2 Power, Peak (Max., Transmit Arm)	400	Watts
1.3 Power, Average (Max., Transmit Arm)	400	Watts
1.6 Load VSWR (Maximum)	2.5:1	-
2.0 Microwave Switch Specifications		-
2.1 Frequency Range	225 to 400	MHz
2.2 Isolation (Minimum)		
2.2.1 Transmit Path (J2 to J1)	50	dB
2.2.2 Receive Path (J1 to J3)	75	dB
2.3 Insertion Loss (Maximum)		
2.3.1 Transmit Path (J2 to J1)	0.5	dB
2.3.2 Receive Path (J1 to J3)	2.0	dB
2.4 VSWR (Maximum)	1.5:1	-
2.5 RF Switching Speed (Maximum)	20	uSec
2.6 Control Switching Freq. (Maximum)	2	Khz
2.7 Control Pulse Width (Minimum)	50	uSec
3.0 General Specifications		
3.1 Connectors		-
3.1.1 RF	SMA-F	
3.1.2 Control/Bias	DEM-9P	
3.2 Control		
3.2.1 Logic	RS422	-
3.2.2 Impedance	120	Ohms
3.2.2 State Table		
	<u>State</u> <u>RF Path</u> <u>Mode</u>	
	0 1 J2 to J1 Transmit	
	1 0 J1 to J3 Recieve	
3.3 DC Power Requirements		
3.3.1 Positive Supply	+5+/-5%	Vdc
3.3.2 Positive Supply Current (Max)	1.0	Amps
3.3.3 Negative Supply Voltage	-235v +/-10%	Vdc
3.3.4 Negative Supply Current (Max)	50	mA
3.4 Environmental Requirements		
3.4.1 Temperature		
3.4.1.1 Operating	-20 to +85	Degrees C
3.4.1.2 Storage	-20 to +125	Degrees C
3.4.2 Cooling: Conduction cooling through surface of switch body		
3.5 Dimensions	Refer to outline drawing	

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