

# TSA0306001200A

## Absorptive SP3T Switch

### Typical Applications

- Fixed Wireless & Microwave Radio below 12 GHz
- Military, Space & Satellite Communications
- Test and Measurement Equipment
- Antenna Switching

### Main Features

- Wideband 6 - 12 GHz
- Excellent Isolation
- Fast Switching Time
- Low Insertion Loss
- SMA Connectorized
- RoHS Compliant

### Electrical Specifications

Parameter	Unit	Specification
Frequency Range	GHz	6 – 12
Isolation	dB	60 min 70 typ
Insertion Loss	dB	2.0 typ 2.4 max
VSWR Input		1.3 : 1 typ / 1.5 : 1 max
VSWR Output		1.3 : 1 typ / 1.5 : 1 max
RF Input Power	dBm	+30 max
Switching Speed	ns	50 max
1dB Compression Input Power	dBm	30 typ
IM3	dBc	40 typ
In/Out Impedance	Ohm	50 typ.
Biasing (+5V/-5V)	mA	120 / 50
TTL Control		"1" (+2V ~+5V) "0"(0v~0.8V)
Replicability	dB	< 0.2 over 10.000 cycles

Products and Product Information are Subject to Change Without Notice

**Mechanical Specifications**

Parameter	Unit	Specification
RF connectors		SMA-FEMALE
Finishing		Gold Plating
Material		Aluminum
Weight	g	50
Operating life		1.000.000 Cycles

**Environment**

Parameter	Unit	Specification
Operating Temperature	°C	-45°C to +85°C
Storage Temperature	°C	-50°C to +125°C

**Truth Table**

Control Input TTL			Signal Path State
C3	C2	C1	
1	1	0	J0-J1
1	0	1	J0-J2
0	1	1	J0-J3
Control Pin Customization available upon request			

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**Outline drawing**

All dimensions in mm [inches]

