

Broadband Solid State RF Switches

0.1 ... 18 GHz



Application

- Test and measurement equipment
- Airborne, naval and ground applications

Benefits

- Easy integration through mounting holes
- Small size
- Integrated TTL or LVDS driver
- Customised bandwidths

General specifications

Switch types	Reflective or non-reflective SP2T to SP7T
Supply voltages (VDC)	±5.0; ±8.0, ±12.0 or ±15.0
Supply currents (mA)	50 ... 350
Cooling	convection
Sealing	hermetic
Grounding	through housing
MTBF (hours)	50'000

RF specification

Frequency band (GHz)	0.5 ... 18
Impedance (Ohm)	50
Return loss (dB)	10 ... 15
Switching time (ns)	25 ... 150
Isolation (dB)	40 ... 60
Insertion loss (dB)	1 ... 3.5
Insertion loss ripple (dB)	0.5 ... 1.5
Max. input power (dBm)	~ 26.0
Video leakage (dBm)	~ -70.0 @ 6 GHz
Amplitude imbalance (dB)	0.3 ... 1.0
Phase imbalance (°)	3 ... 10

Mechanical specification

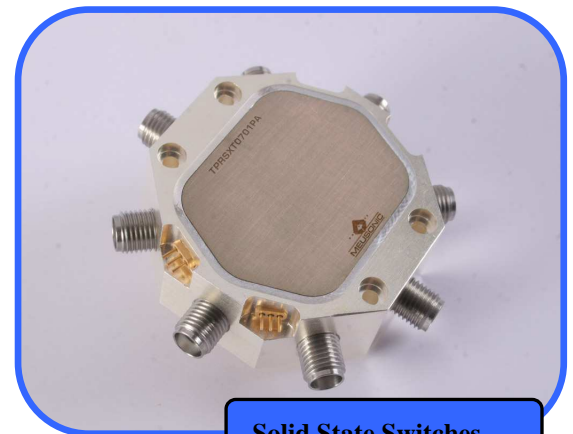
Housing	Aluminium
Dimensions w/o connectors (mm)	Diameter: ~ 50 Height: 12
Mounting	4 holes

Interfaces

RF connectors	SMA male or female
DC connector and signalling	Pins

Compliance

Temperature range (°C)	-55 ... +125
Shock and vibration	MIL-STD-810E
Climate	MIL-STD-810E
EMC	MIL-STD-461C RTCA DO160C



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