## **Technical Data Sheet**



SP4T Ramses SMA2.9 40GHz Latching Self-cut-off Auto-reset 12Vdc BCD TTL Diodes Pins Terminals

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#### RF CHARACTERISTICS

Number of ways : 4

Frequency range : 0 - 40 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40
VSWR max	1.30	1.40	1.50	1.70	1.95
Insertion loss max	0.20 dB	0.40 dB	0.50 dB	0.70 dB	1.00 dB
Isolation min	80 dB	70 dB	70 dB	60 dB	55 dB
Average power (*)	40 W	30 W	25 W	15 W	5 W

### **ELECTRICAL CHARACTERISTICS**

Actuator : LATCHING
Nominal current \*\* : 640 mA

Actuator voltage (Vcc) : 12V (10.2 to 13V)

Terminals : solder pins (250°C max. / 30 sec.)

Self cut-off time : 40 ms < CT < 120 ms

BCD inputs (E) - High level :  $3.5 \text{ to } 5.5 \text{ V} / 800 \mu\text{A} \text{ at } 5.5 \text{ V}$ 

- Low level : 0 to 1.5 V / 20μA at 0.8 V

### MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 female per MIL-C 39012
Life : 7 million cycles per position

Switching Time\*\*\* : < 40 msConstruction : Splashproof
Weight : < 220 g

# **ENVIRONMENTAL CHARACTERISTICS**

Operating temperature range : -40°C to +85°C Storage temperature range : -55°C to +85°C

(\* Average power at 25°C per RF Path)

(\*\* At 25° C ±10%)

(\*\*\* Nominal voltage; 25° C)







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PAGE **2/2** ISSUE 10-04-25 SERIE: SPnT PART NUMBER: **R573882480 DRAWING** 6 x M3 depth 4 [1,063] 60°  $\emptyset$  27 **BCD TRUTH TABLE** E3 E2 E1 RF continuity All ports open 0 0 0 (Forced Reset)  $IN \leftrightarrow 1$ 0 0 [1,508] 0 0  $IN \leftrightarrow 2$ 1 Ø38,3Ō 0 1  $IN \leftrightarrow 3$ 0 0  $IN \leftrightarrow 4$ [0,256 min.] 6,50 min. Pin terminals LABEL **RADIALL®** [2,185 max.] 55,50 max. R573882480 [0,264 max.] 6,70 max. 0 - 40 GHz Un: 12V BOTTOM VIEW Lot : \_ \_ \_ \_ 1 2,244  $\emptyset$  57 General tolerances: ±0,5 mm [0,02 in] SCHEMATIC DIAGRAM Vcc E1 E2 E3 Power Input Terminals CUT-OFF / FORCED OR AUTOMATIC RESET BCD-TTL DRIVE Actuators RF inputs

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