# **Technical Data Sheet**



SP6T Terminated Ramses SMA 18GHz Latching Self-cut-off Auto-reset Indicators 12Vdc BCD TTL Diodes D-sub connector

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#### RF CHARACTERISTICS

Number of ways : 6

Frequency range : 0 - 18 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 18
VSWR max	1,20	1,30	1,40	1,50
Insertion loss max	0.20 dB	0.30 dB	0.40 dB	0.50 dB
Isolation min	80 dB	70 dB	60 dB	60 dB
Average power (*)	240 W	150 W	120 W	100 W

TERMINATION IMPEDANCE : 50 Ohms

TERM. AVG. POWER AT 25° C : 1 W per termination / 3 W total power

### **ELECTRICAL CHARACTERISTICS**

Actuator : LATCHING
Nominal current \*\* : 960 mA

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

Terminals : 25 pins D-SUB male connector

 $\begin{tabular}{ll} Indicator rating & : 1 W / 30 V / 100 mA \\ Self cut-off time & : 40 ms < CT < 120 ms \end{tabular}$ 

BCD inputs (E) - High level : 3.5 to 5.5 V /  $800\mu A$  at 5.5 V - Low level : 0 to 1.5 V /  $20\mu A$  at 0.8 V

## MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012 Life : 2 million cycles per position

Switching Time\*\*\* : < 40 ms Construction : Splashproof Weight : < 250 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 **22-03-22** SERIE: SPnT PART NUMBER: **R574492685 DRAWING** 6 x M3 depth 4 [1.760] 0 Ø 44.70 **BCD TRUTH TABLE** E1 E3 E2 RF continuity Ind. All ports open 0 0 0 (Forced Reset) 1.500 0  $IN \leftrightarrow 1$ D.E 0 Ø38.10 1 0  $IN \leftrightarrow 2$ D.F 0 0 1 1  $IN \leftrightarrow 3$ D.G 1 0 0  $\text{IN} \leftrightarrow 4$ D.H 25 pins D-SUB male connector 1 0 1 IN ↔ 5 D.I 4-40 UNC 0  $IN \leftrightarrow 6$ D.J **LABEL** TOP VIEW **RADIALL®** [2.618 max.] 66.50 max. [2.421 max.] 61.50 max. 1000000 R574492685 [0.303 max.] 7.70 max. 0 - 18 GHz I E E1 GND Vcc G E3 Un: 12V BOTTOM VIEW Lot : \_ \_ \_ \_ 6 () 3 1 2 2.244  $\emptyset$  57 General tolerances: ±0,5 mm [0,02 in] **SCHEMATIC DIAGRAM** Power input terminals RTN ΕŽ CUT-OFF / FORCED OR AUTOMATIC RESET BCD-TTL DRIVE Dφ Indicator terminals Actuators

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RF inputs