## **Technical Data Sheet**



SP6T Terminated Ramses SMA 18GHz Normally open 12Vdc BCD TTL

Diodes D-sub connector

PAGE 1/2 ISSUE 06-02-18 SERIE : SPnT PART NUMBER : R574402685

#### 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 : NORMALLY OPEN

Nominal current \*\* : 250 mA

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

Terminals : 25 pins D-SUB male connector BCD inputs (E) - High level : 3.5 to 5.5 V / 800µA 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\*\*\* : < 15 msConstruction : 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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SP6T Terminated Ramses SMA 18GHz Normally open 12Vdc BCD TTL

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PAGE 2/2 ISSUE 06-02-18 SERIE: SPnT PART NUMBER: **R574402685 DRAWING** 6 x M3 depth 4 1.760 Ø 44.70 BCD TRUTH TABLE ЕЗ E2 E1 RF continuity 0 0 Last Position 1 1 All ports open 1.500 0 0 1  $IN \leftrightarrow 1$ Ø38.10  $IN \leftrightarrow 2$ 0 0 1 0 1 1  $IN \leftrightarrow 3$ 0 0  $IN \leftrightarrow 4$ 1 25 pins D-SUB male connector 0 1 IN ↔ 5 4-40 UNC 0 IN ↔ 6 **LABEL** TOP VIEW <u>E2</u> **RADIALL®** [2.618 max.] 66.50 max. R574402685 00000 000 E1 GND Vcc E3 [0.303 max.] 7.70 max. 0 - 18 GHz Un: 12V BOTTOM VIEW Lot : \_ \_ \_ \_ 6 () 3 1 2 2.244 Ø 57 General tolerances: ±0,5 mm [0,02 in] SCHEMATIC DIAGRAM Power input terminals RTN Vcc E2 E3 BCD DECODER AND TTL LOGIC / POWER BREAKER CIRCUITRY Actuators

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