# **Technical Data Sheet**



SP3T Terminated Ramses SMA 18GHz Normally open Indicators 28Vdc
Positive common Pins Terminals

PAGE 1/2 ISSUE 22-03-22 SERIE : SPnT PART NUMBER : R574413310

#### RF CHARACTERISTICS

Number of ways : 3

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 \*\* : 102 mA

Actuator voltage (Vcc) : 28V (24 to 30V) / POSITIVE COMMON Terminals : solder pins (250°C max. / 30 sec.)

Indicator rating : 1 W / 30 V / 100 mA

### 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)







SP3T Terminated Ramses SMA 18GHz Normally open Indicators 28Vdc
Positive common Pins Terminals

PAGE **2/2** ISSUE **22-03-22** SERIE: SPnT PART NUMBER: **R574413310 DRAWING** 6 x M3 depth 4 ô 1.500 Voltage RF Continuity Ø38.10 D.E +C -1  $IN \leftrightarrow \mathbf{1}$ D.F +C -2  $IN \leftrightarrow 2$ +C -3  $IN \leftrightarrow 3$ D.G 1.760 Ø 44.70 [0.256 min.] 6.50 min. 0.374 min. Pin terminals **LABEL RADIALL®** TOP VIEW R574413310 [1.831 max.] 46.50 max. 0 - 18 GHz 7.70 max. Un: 28V BOTTOM VIEW Lot : \_ \_ \_ \_ 2 1 2.244  $\emptyset$  57 General tolerances: ±0,5 mm [0,02 in] **SCHEMATIC DIAGRAM** Power input terminals Indicator terminals Actuators **RF** inputs

This document contains proprietary information and such information shall not be disclosed to any third party for any purpose whatsoever or used for manufacturing purposes without prior written agreement from Radiall. The data defined in this document are given as an indication, in the effort to improve our products; we reserve the right to make any changes judged necessary.