Technical Data Sheet



SP4T Terminated Ramses SMA 18GHz Latching 12Vdc Positive common Diodes D-sub connector

SERIE : SPnT PART NUMBER : R574422445

RF CHARACTERISTICS

PAGE 1/2

Number of ways : 4

ISSUE 06-02-18

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 ** : 320 mA / RESET : 1280 mA ****

Actuator voltage (Vcc) : 12V (10.2 to 13V) / POSITIVE COMMON

Terminals : 25 pins D-SUB male connector

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)

(**** Reset : supply voltage time 1sec. max. / duty cycle 10%)



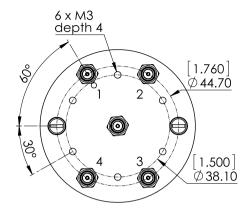




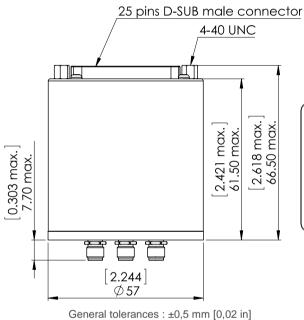
SP4T Terminated Ramses SMA 18GHz Latching 12Vdc Positive common Diodes D-sub connector

PAGE 2/2 ISSUE 06-02-18 SERIE : SPnT PART NUMBER : R574422445

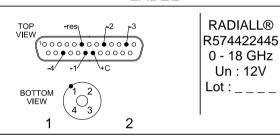
DRAWING



| Voltage | RF Continuity | | |
|-----------|------------------------|--|--|
| +C -RESET | All ports open | | |
| +C -1 | $IN \leftrightarrow 1$ | | |
| +C -2 | $IN \leftrightarrow 2$ | | |
| +C -3 | IN ↔ 3 | | |
| +C -4 | $IN \leftrightarrow 4$ | | |

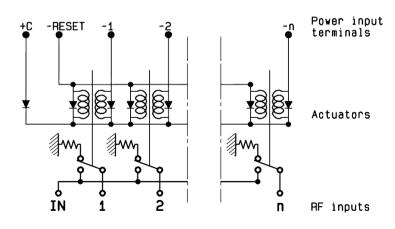


LABEL





SCHEMATIC DIAGRAM



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.