# Technical Data Sheet

SP4T Terminated Ramses SMA 3GHz Normaly open 28Vdc BCD TTL Drive
D-sub connector

| PAGE **1/2** | ISSUE **05-06-15** | SERIE : **SPnT** | PART NUMBER : **R574303485** |
|---|---|---|---|

## RF CHARACTERISTICS

| | |
|---|---|
| Number of ways | : **4** |
| Frequency range | : **0 - 3 GHz** |
| Impedance | : **50 Ohms** |

| Frequency (GHz) | **DC - 3** |
|---|---|
| VSWR max | **1.20** |
| Insertion loss max | **0.20 dB** |
| Isolation min | **80 dB** |
| Average power (*) | **240 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)** |
| 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 / 20µA at 0.8 V** |

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| Connectors | : **SMA female per MIL-C 39012** |
| Life | : **2.000.000 cycles per position** |
| Switching Time*** | : **< 15 ms** |
| Construction | : **Splashproof** |
| Weight | : **< 250 g** |

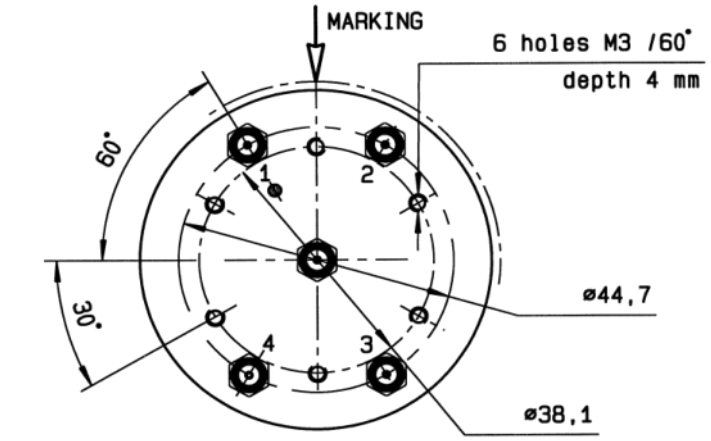
## ENVIRONMENTAL CHARACTERISTICS

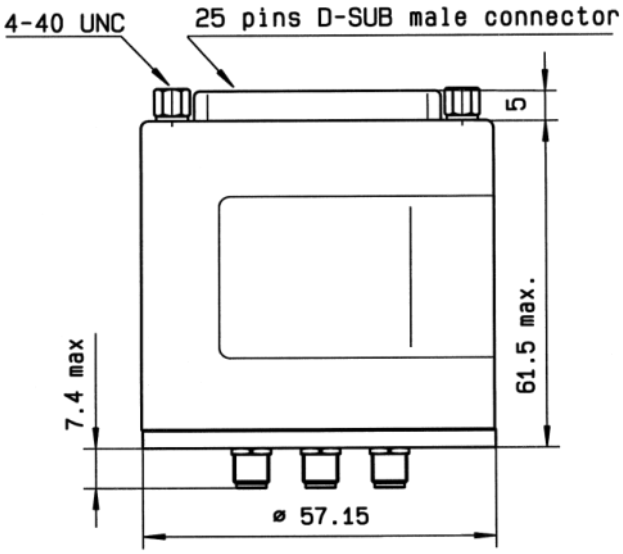
| | |
|---|---|
| Operating temperature range | : **-40°C to +85°C** |
| Storage temperature range | : **-55°C to +85°C** |

(* Average power at 25°C per RF Path)
(** At 25° C ±10%)
(*** Nominal voltage ; 25° C)

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.

DRAWING

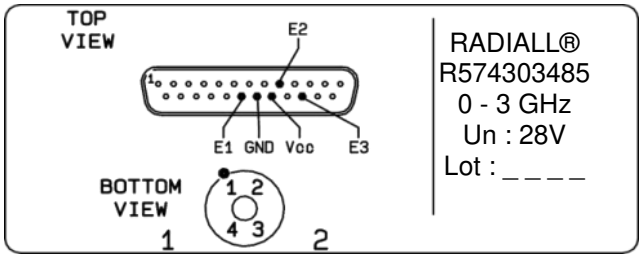



General tolerances : ±0.5 mm

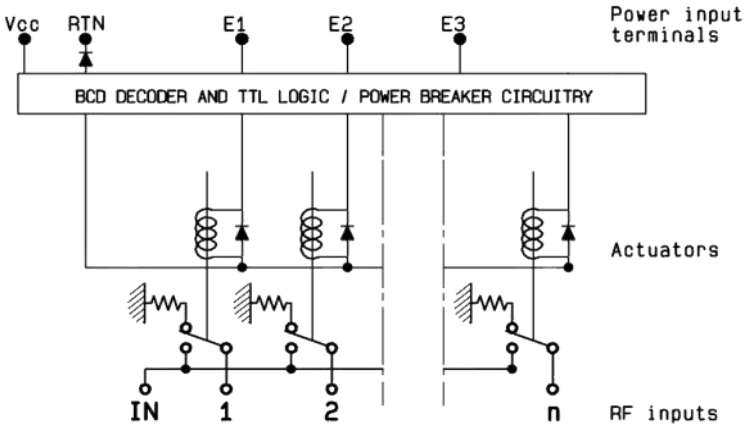
| BCD TRUTH TABLE | | | |
|---|---|---|---|
| E3 | E2 | E1 | RF continuity |
| 0 | 0 | 0 | Last Position |
| 1 | 1 | 1 | All ports open |
| 0 | 0 | 1 | IN ↔ 1 |
| 0 | 1 | 0 | IN ↔ 2 |
| 0 | 1 | 1 | IN ↔ 3 |
| 1 | 0 | 0 | IN ↔ 4 |

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.