# Technical Data Sheet

SP5T Terminated Ramses SMA 18GHz Latching Self-cut-off Auto-reset Indicators 28Vdc BCD TTL Diodes D-sub connector

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|---|---|---|---|

## RF CHARACTERISTICS

Number of ways : **5**
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 ** : **375 mA**
Actuator voltage (Vcc) : **28V (24 to 30V)**
Terminals : **25 pins D-SUB male connector**
Indicator rating : **1 W / 30 V / 100 mA**
Self cut-off time : **40 ms < CT < 120 ms**
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

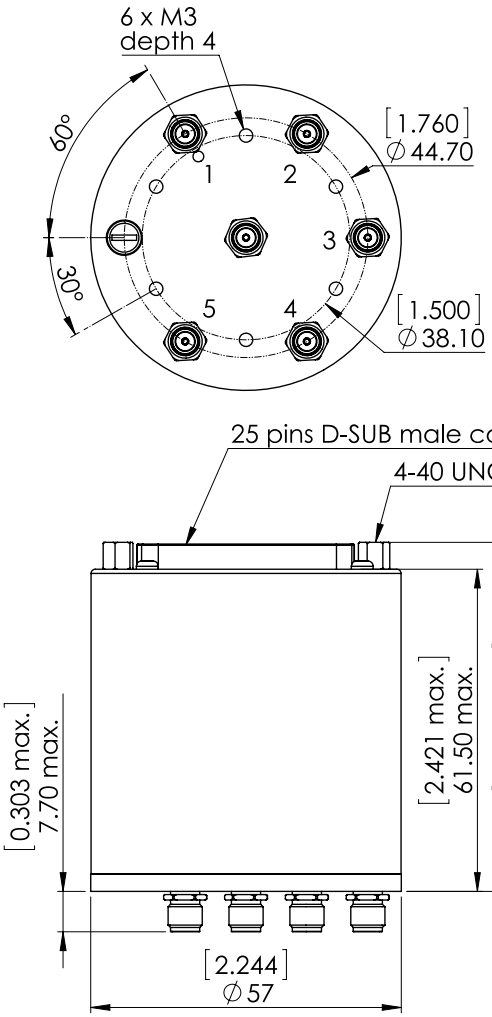
Connectors : **SMA female per MIL-C 39012**
Life : **2 million cycles per position**
Switching Time*** : **< 40 ms**
Construction : **Splashproof**
Weight : **< 250 g**

## ENVIRONMENTAL CHARACTERISTICS

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

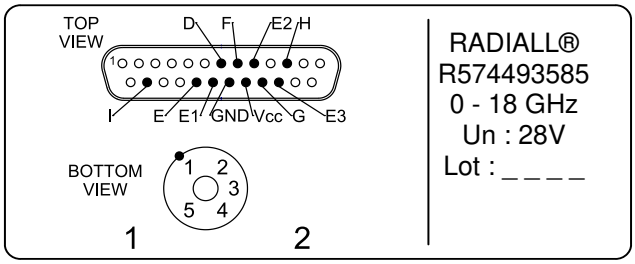
(* Average power at 25°C per RF Path)
(** At 25° C ±10%)
(*** Nominal voltage ; 25° C)

DRAWING




| BCD TRUTH TABLE | | | | |
|---|---|---|---|---|
| E3 | E2 | E1 | RF continuity | Ind. |
| 0 | 0 | 0 | All ports open (Forced Reset) | - - |
| 0 | 0 | 1 | IN ↔ 1 | D.E |
| 0 | 1 | 0 | IN ↔ 2 | D.F |
| 0 | 1 | 1 | IN ↔ 3 | D.G |
| 1 | 0 | 0 | IN ↔ 4 | D.H |
| 1 | 0 | 1 | IN ↔ 5 | D.I |

LABEL




General tolerances : ±0,5 mm [0,02 in]

SCHEMATIC DIAGRAM