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ISSUE 22-03-22

SERIE : SPnT

PART NUMBER : R574482025

## RF CHARACTERISTICS

Number of ways : **10**  
 Frequency range : **0 - 18 GHz**  
 Impedance : **50 Ohms**

| Frequency (GHz)    | DC - 3         | 3 - 8          | 8 - 12.4       | 12.4 - 15.5    | 15.5 - 18      |
|--------------------|----------------|----------------|----------------|----------------|----------------|
| VSWR max           | <b>1,20</b>    | <b>1,30</b>    | <b>1,40</b>    | <b>1,50</b>    | <b>1,70</b>    |
| Insertion loss max | <b>0.20 dB</b> | <b>0.30 dB</b> | <b>0.40 dB</b> | <b>0.50 dB</b> | <b>0.70 dB</b> |
| Isolation min      | <b>80 dB</b>   | <b>70 dB</b>   | <b>60 dB</b>   | <b>60 dB</b>   | <b>55 dB</b>   |
| Average power (*)  | <b>240 W</b>   | <b>150 W</b>   | <b>120 W</b>   | <b>110 W</b>   | <b>100 W</b>   |

TERMINATION IMPEDANCE : **50 Ohms**  
 TERM. AVG. POWER AT 25° C : **1 W per termination / 3 W total power**

## ELECTRICAL CHARACTERISTICS

Actuator : **LATCHING**  
 Nominal current \*\* : **1280 mA**  
 Actuator voltage (Vcc) : **12V (10.2 to 13V)**  
 Terminals : **25 pins D-SUB male connector**  
 Self cut-off time : **40 ms < CT < 120 ms**  
 TTL inputs (E) - High level : **2.2 to 5.5 V / 800µA at 5.5 V**  
 - Low level : **0 to 0.8 V / 20µA at 0.8 V**

## MECHANICAL CHARACTERISTICS

Connectors : **SMA female per MIL-C 39012**  
 Life : **2 million cycles per position**  
 Switching Time\*\*\* : **< 50 ms**  
 Construction : **Splashproof**  
 Weight : **< 360 g**

## ENVIRONMENTAL CHARACTERISTICS

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

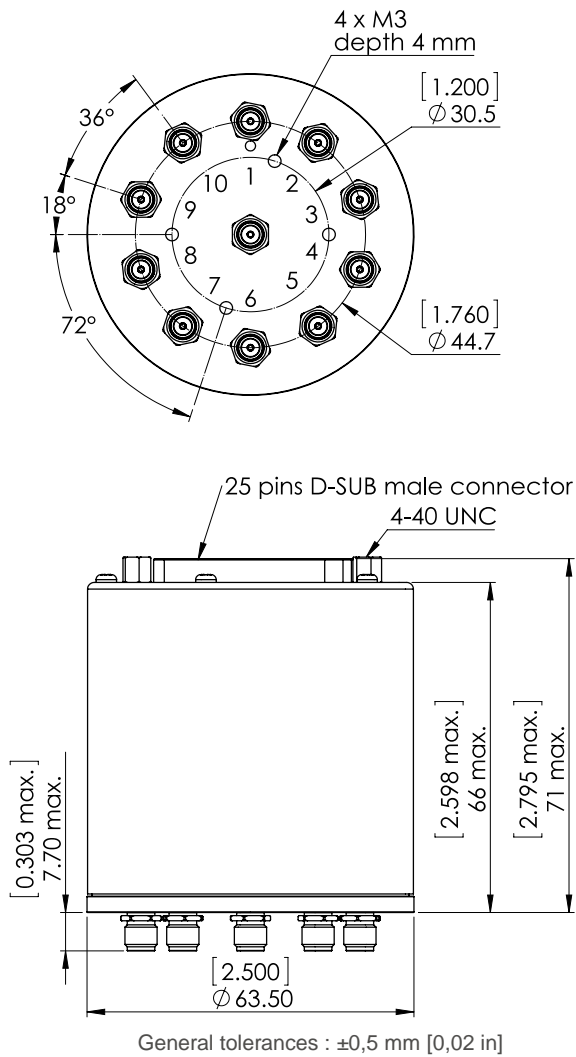
(\* Average power at 25°C per RF Path)

(\*\* At 25° C ±10%)

(\*\*\* Nominal voltage ; 25° C)

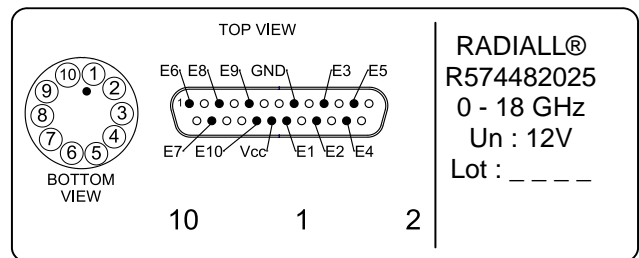


DRAWING



| TTL input | RF Continuity           |
|-----------|-------------------------|
| E1 = 1    | IN $\leftrightarrow$ 1  |
| E2 = 1    | IN $\leftrightarrow$ 2  |
| E3 = 1    | IN $\leftrightarrow$ 3  |
| E4 = 1    | IN $\leftrightarrow$ 4  |
| E5 = 1    | IN $\leftrightarrow$ 5  |
| E6 = 1    | IN $\leftrightarrow$ 6  |
| E7 = 1    | IN $\leftrightarrow$ 7  |
| E8 = 1    | IN $\leftrightarrow$ 8  |
| E9 = 1    | IN $\leftrightarrow$ 9  |
| E10 = 1   | IN $\leftrightarrow$ 10 |

**LABEL**



SCHEMATIC DIAGRAM

