# **Technical Data Sheet**



SP6T Terminated Ramses SMA2.9 40GHz Latching 12Vdc D-sub connector

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#### RF CHARACTERISTICS

Number of ways : 6

Frequency range : 0 - 40 GHz Impedance : 50 Ohms

| Frequency (GHz)    | DC - 6  | 6 - 12.4 | 12.4 - 18 | 18 - 26.5 | 26.5 - 40 |
|--------------------|---------|----------|-----------|-----------|-----------|
| VSWR max           | 1,30    | 1,40     | 1,50      | 1,70      | 2,20      |
| Insertion loss max | 0.20 dB | 0.40 dB  | 0.50 dB   | 0.70 dB   | 1.10 dB   |
| Isolation min      | 70 dB   | 60 dB    | 60 dB     | 55 dB     | 50 dB     |
| Average power (*)  | 40 W    | 30 W     | 25 W      | 15 W      | 5 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 : 1920 mA \*\*\*\*

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

Terminals : 25 pins D-SUB male connector

## MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 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%)



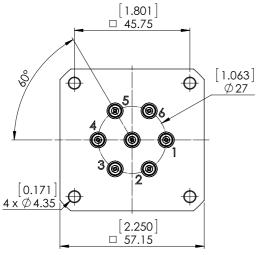
# **Technical Data Sheet**



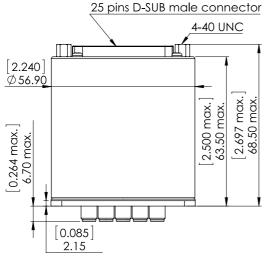
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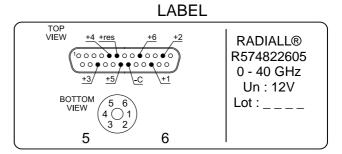
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#### **DRAWING**



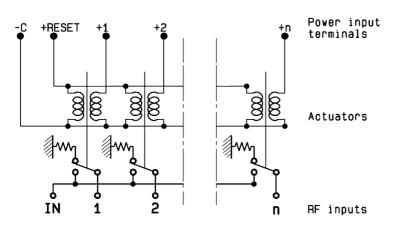
| Voltage   | RF Continuity          |  |  |
|-----------|------------------------|--|--|
| -C +RESET | All ports open         |  |  |
| -C +1     | $IN \leftrightarrow 1$ |  |  |
| -C +2     | $IN \leftrightarrow 2$ |  |  |
| -C +3     | $IN \leftrightarrow 3$ |  |  |
| -C +4     | $IN \leftrightarrow 4$ |  |  |
| -C +5     | IN ↔ 5                 |  |  |
| -C +6     | $IN \leftrightarrow 6$ |  |  |





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

# SCHEMATIC DIAGRAM



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