Technical Data Sheet



SP8T Terminated Ramses SMA 18GHz Latching 28Vdc D-sub connector

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RF CHARACTERISTICS

Number of ways : 8

Frequency range : 0 - 18 GHz Impedance : 50 Ohms

| Frequency (GHz) | DC - 3 | 3 - 8 | 8 - 12.4 | 12.4 - 16 | 16 - 18 |
|--------------------|---------|---------|----------|-----------|---------|
| VSWR max | 1.20 | 1.30 | 1.40 | 1.50 | 1.60 |
| Insertion loss max | 0.20 dB | 0.30 dB | 0.40 dB | 0.55 dB | 0.60 dB |
| Isolation min | 80 dB | 70 dB | 60 dB | 60 dB | 60 dB |
| Average power (*) | 240 W | 150 W | 120 W | 110 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 ** : 125 mA / RESET : 1000 mA ****

Actuator voltage (Vcc) : 28V (24 to 30V) / NEGATIVE 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 : < 280 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%)



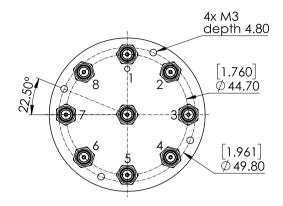
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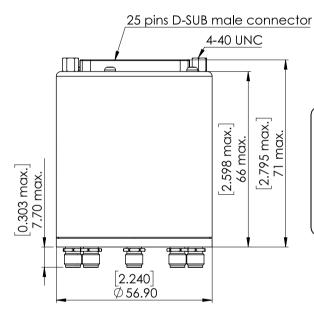
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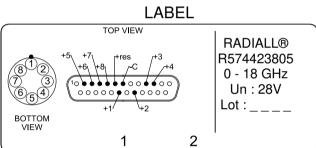
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DRAWING



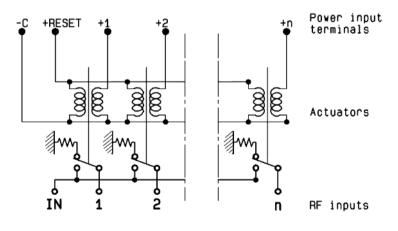
| Voltage | RF Continuity | | |
|-----------|------------------------|--|--|
| -C +RESET | All ports open | | |
| -C +1 | $IN \leftrightarrow 1$ | | |
| -C +2 | $IN \leftrightarrow 2$ | | |
| -C +3 | $IN \leftrightarrow 3$ | | |
| -C +4 | $IN \leftrightarrow 4$ | | |
| -C +5 | IN ↔ 5 | | |
| -C +6 | IN ↔ 6 | | |
| -C +7 | $IN \leftrightarrow 7$ | | |
| -C +8 | $IN \leftrightarrow 8$ | | |





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

SCHEMATIC DIAGRAM



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