Technical Data Sheet



SP4T Terminated Ramses SMA2.9 40GHz Latching 12Vdc Positive common Diodes D-sub connector

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RF CHARACTERISTICS

Number of ways : 4

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 | 1.95 |
| Insertion loss max | 0.20 dB | 0.40 dB | 0.50 dB | 0.70 dB | 1.00 dB |
| Isolation min | 80 dB | 70 dB | 70 dB | 60 dB | 55 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 : 1280 mA ****

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

Terminals : 25 pins D-SUB male connector

MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 female per MIL-C 39012
Life : 7 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%)



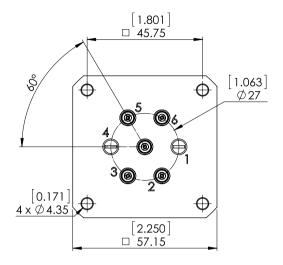




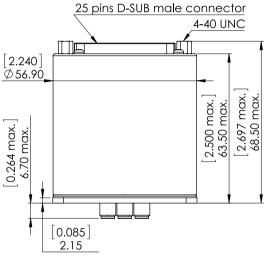
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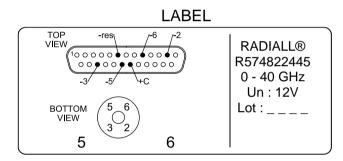
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DRAWING



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

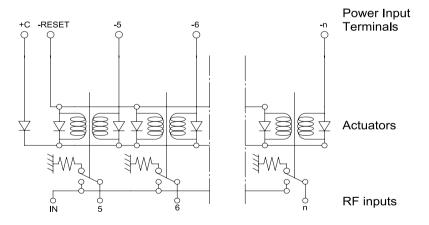






General tolerances : ±0,5 mm [0,02 in]

SCHEMATIC DIAGRAM



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