Technical Data Sheet



SP4T Terminated Ramses SMA 18GHz Normally open 28Vdc TTL Diodes

D-sub connector

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RF CHARACTERISTICS

Number of ways : 4

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 : NORMALLY OPEN

Nominal current ** : 102 mA

Actuator voltage (Vcc) : 28V (24 to 30V)

Terminals : 25 pins D-SUB male connector TTL inputs (E) - High level : 2.2 to 5.5 V / 800µA at 5.5 V

- Low level : 0 to 0.8 V / $20\mu A$ at 0.8 V

MECHANICAL CHARACTERISTICS

Connectors : SMA 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)



Technical Data Sheet

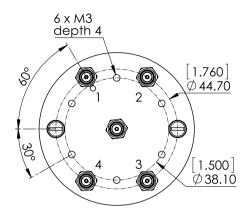


SP4T Terminated Ramses SMA 18GHz Normally open 28Vdc TTL Diodes

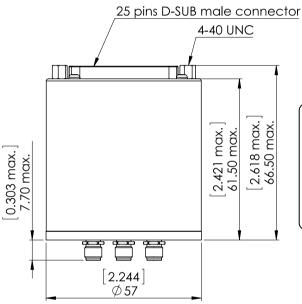
D-sub connector

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DRAWING

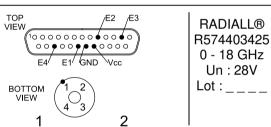


| TTL input | RF Continuity | |
|-----------|------------------------|--|
| E1 = 1 | $IN \leftrightarrow 1$ | |
| E2 = 1 | $IN \leftrightarrow 2$ | |
| E3 = 1 | $IN \leftrightarrow 3$ | |
| E4 = 1 | $IN \leftrightarrow 4$ | |



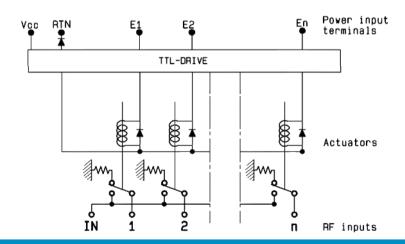
General tolerances: ±0,5 mm [0,02 in]

LABEL





SCHEMATIC DIAGRAM



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