Technical Data Sheet



SP3T Ramses SMA2.9 40GHz Normally open 12Vdc BCD TTL Diodes D-sub connector

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RF CHARACTERISTICS

Number of ways : 3

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 |

ELECTRICAL CHARACTERISTICS

Actuator : NORMALLY OPEN

Nominal current ** : 250 mA

Actuator voltage (Vcc) : 12V (10.2 to 13V)

Terminals : 25 pins D-SUB male connector BCD inputs (E) - High level : 3.5 to 5.5 V / 800µA at 5.5 V

- Low level : 0 to 1.5 V / $20\mu A$ at 0.8 V

MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 female per MIL-C 39012
Life : 2 million cycles per position

Switching Time*** : < 15 msConstruction : Splashproof
Weight : < 220 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)



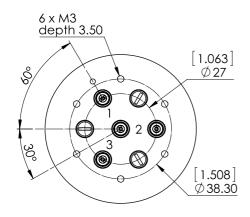
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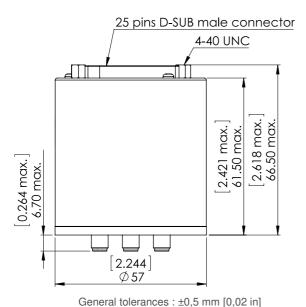
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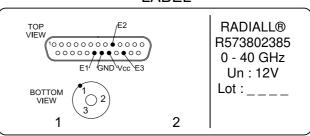
DRAWING



| BCD TRUTH TABLE | | | | |
|-----------------|----|----|------------------------|--|
| E3 | E2 | E1 | RF continuity | |
| 0 | 0 | 0 | Last Position | |
| 1 | 1 | 1 | All ports open | |
| 0 | 0 | 1 | IN ↔ 1 | |
| 0 | 1 | 0 | $IN \leftrightarrow 2$ | |
| 0 | 1 | 1 | $IN \leftrightarrow 3$ | |

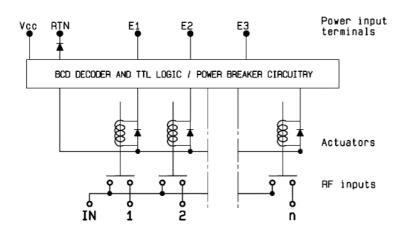


LABEL





SCHEMATIC DIAGRAM



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