# Technical Data Sheet

SP4T Ramses SMA 18GHz Latching 12Vdc TTL Diodes Pins Terminals

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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 |

## ELECTRICAL CHARACTERISTICS

| | | |
|---|---|---|
| Actuator | | : **LATCHING** |
| Nominal current ** | | : **320 mA / RESET : 1280 mA ****** |
| Actuator voltage (Vcc) | | : **12V (10.2 to 13V)** |
| Terminals | | : **solder pins (250°C max. / 30 sec.)** |
| TTL inputs (E) | - High level | : **2.2 to 5.5 V / 800µA at 5.5 V** |
| | - Low level | : **0 to 0.8 V / 20µA at 0.8 V** |

## MECHANICAL CHARACTERISTICS

| | |
|---|---|
| Connectors | : **SMA female per MIL-C 39012** |
| Life | : **5 million cycles per position** |
| Switching Time*** | : **< 15 ms** |
| Construction | : **Splashproof** |
| Weight | : **< 220 g** |

## ENVIRONMENTAL CHARACTERISTICS

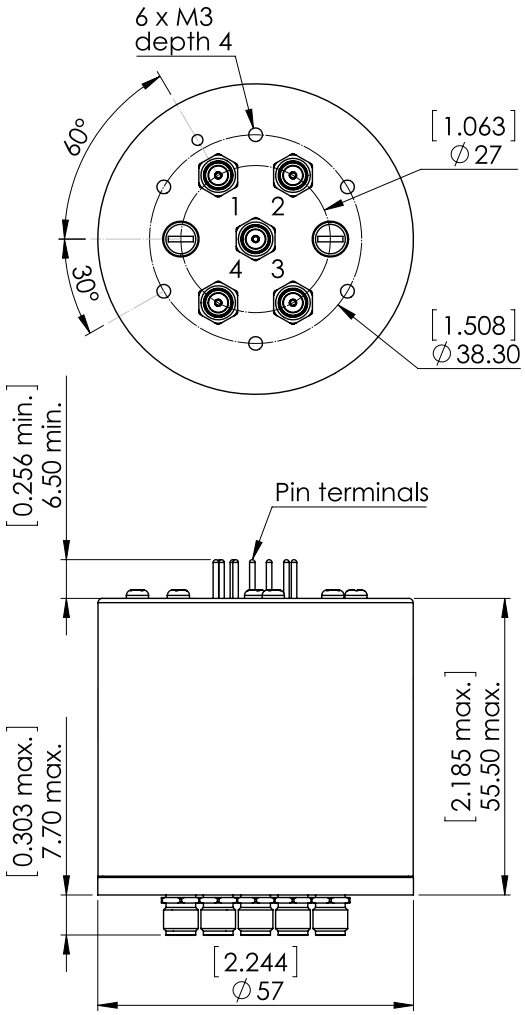
| | |
|---|---|
| Operating temperature range | : **-40°C to +85°C** |
| Storage temperature range | : **-55°C to +85°C** |

(* Average power at 25°C per RF Path)
(** At 25° C ±10%)
(*** Nominal voltage ; 25° C)
(**** Reset : supply voltage time 1sec. max. / duty cycle 10%)

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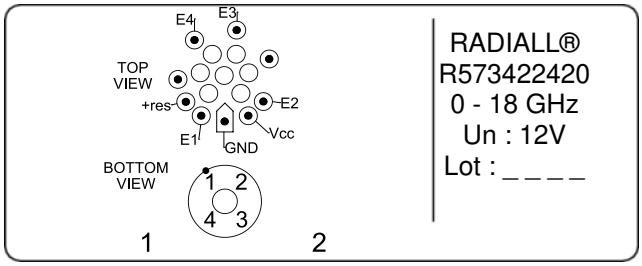
DRAWING




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

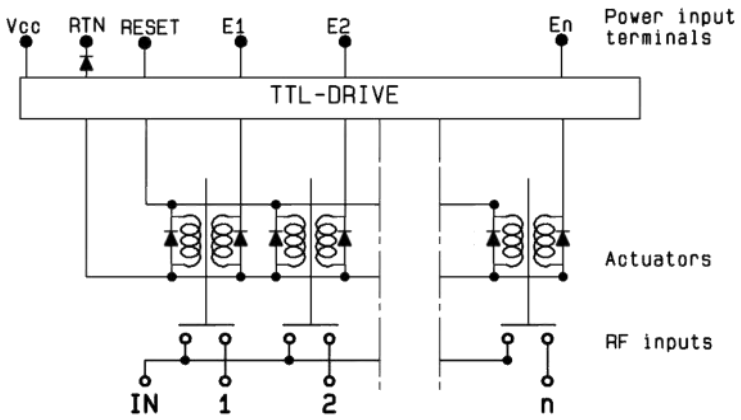
| TTL input | RF Continuity |
|---|---|
| RESET = 1 | All ports open |
| E1 = 1 | IN ↔ 1 |
| E2 = 1 | IN ↔ 2 |
| E3 = 1 | IN ↔ 3 |
| E4 = 1 | IN ↔ 4 |

LABEL






SCHEMATIC DIAGRAM




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