

PAGE 1/2

ISSUE 22-03-22

SERIE : SPDT

PART NUMBER : R570412100LP

## RF CHARACTERISTICS

Frequency range : **0 - 18 GHz**  
 Impedance : **50 Ohms**

| Frequency (GHz)    | DC - 3         | 3 - 8          | 8 - 12.4       | 12.4 - 18      |
|--------------------|----------------|----------------|----------------|----------------|
| VSWR max           | <b>1.10</b>    | <b>1.20</b>    | <b>1.20</b>    | <b>1.40</b>    |
| Insertion loss max | <b>0.15 dB</b> | <b>0.20 dB</b> | <b>0.25 dB</b> | <b>0.35 dB</b> |
| Isolation min      | <b>80 dB</b>   | <b>75 dB</b>   | <b>65 dB</b>   | <b>60 dB</b>   |
| Average power (*)  | <b>240 W</b>   | <b>150 W</b>   | <b>120 W</b>   | <b>100 W</b>   |

| Passive intermodulation   |                                |
|---------------------------|--------------------------------|
| Tone 1                    | 1810 MHz, approximately 43 dBm |
| Tone 2                    | 1850 MHz, approximately 43 dBm |
| 3 <sup>rd</sup> order PIM | - 160 dBc at 1770 MHz          |

Depending on application, carrier powers and frequencies, PIM measurements can vary.  
 PIM testing is not measured during product acceptance test.

## ELECTRICAL CHARACTERISTICS

Actuator : **FAILSAFE**  
 Nominal current \*\* : **250 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 : **2 million cycles**  
 Switching Time\*\*\* : **< 10 ms**  
 Construction : **Splashproof**  
 Weight : **< 45 g**

## ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : **-25°C to +70°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)
- (\*\*\*\*\* Recommended mating torque: 80-120 N.cm)



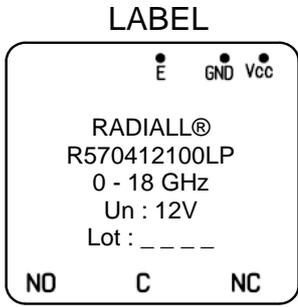
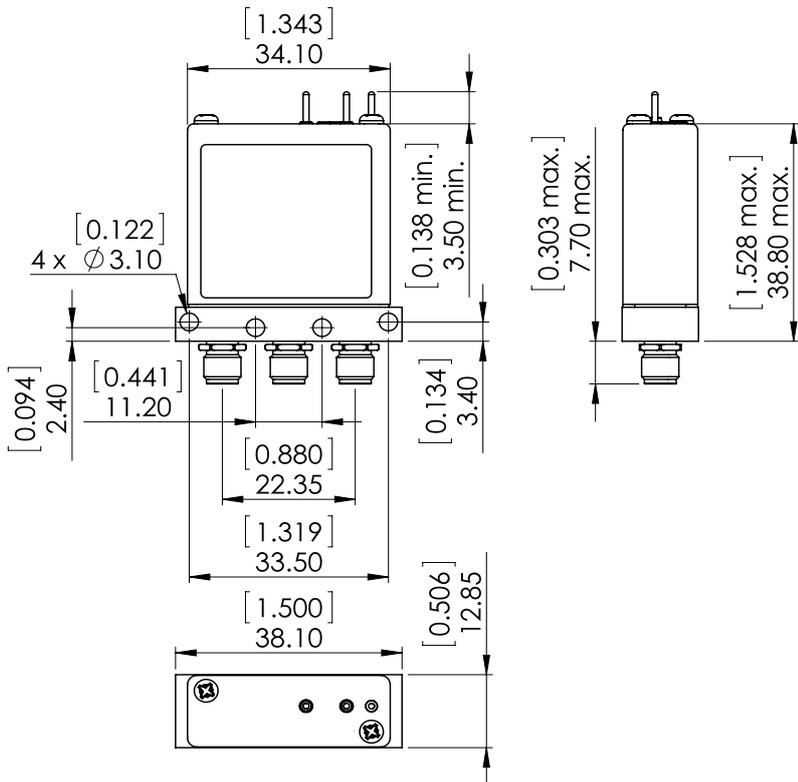
PAGE 2/2

ISSUE 22-03-22

SERIE : SPDT

PART NUMBER : R570412100LP

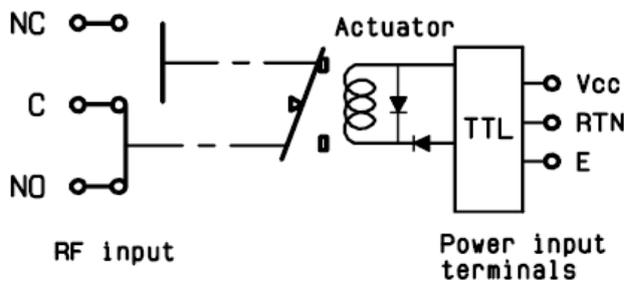
DRAWING



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

SCHEMATIC DIAGRAM

**Position Energized :**



| TTL input | RF Continuity |
|-----------|---------------|
| E = 0     | C ↔ NC        |
| E = 1     | C ↔ NO        |