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ISSUE 15.05.15

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 | 1.10 | 1.20 | 1.20 | 1.40 |
| Insertion loss max | 0.15 dB | 0.20 dB | 0.25 dB | 0.35 dB |
| Isolation min | 80 dB | 75 dB | 65 dB | 60 dB |
| Average power (*) | 240 W | 150 W | 120 W | 100 W |

| Passive intermodulation | |
|---------------------------|--------------------------------|
| Tone 1 | 1810 MHz, approximately 43 dBm |
| Tone 2 | 1850 MHz, approximately 43 dBm |
| 3 rd 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)



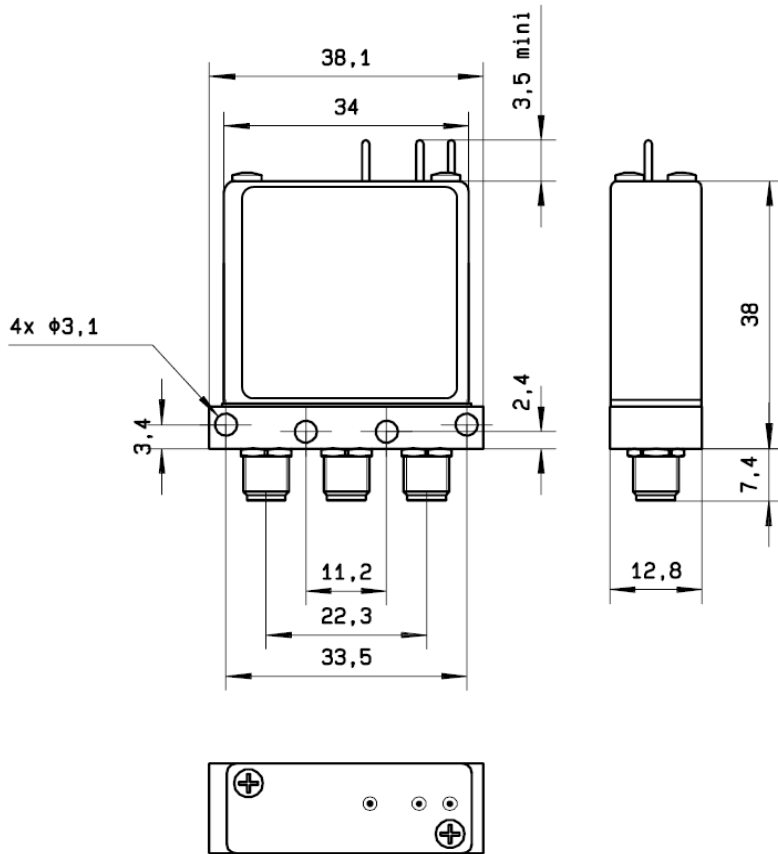
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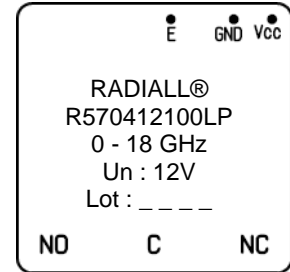
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DRAWING



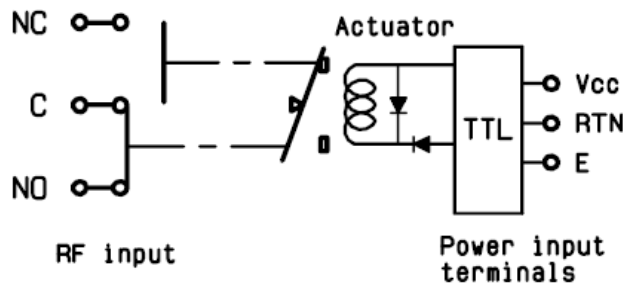
LABEL



General tolerances : ± 0.5 mm

SCHEMATIC DIAGRAM

Position Energized :



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