Technical Data Sheet



SPDT Ramses Low PIM SMA 18GHz Failsafe 28Vdc Pins Terminals

PAGE 1/2 ISSUE 22-03-22 SERIE : SPDT PART NUMBER : R570413000LP

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 ** : 102 mA

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

Terminals : solder pins (250°C max. / 30 sec.)

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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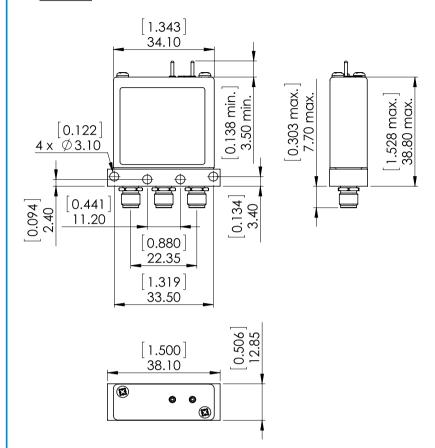
Technical Data Sheet

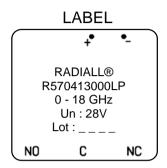


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DRAWING

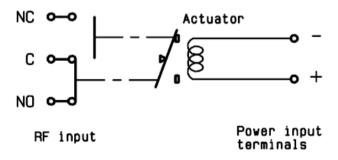




General tolerances: ±0,5 mm [0,02 in]

SCHEMATIC DIAGRAM

Position Energized:



| Voltage | RF Continuity | |
|--------------|------------------------|--|
| De-energized | $C \leftrightarrow NC$ | |
| energized | $C \leftrightarrow NO$ | |

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