Technical Data Sheet



SP4T Terminated Ramses SMA 18GHz Normally open Indicators 28Vdc

TTL Diodes Pins Terminals

PAGE 1/2 ISSUE 22-03-22 SERIE : SPnT PART NUMBER : R574413420

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 |

TERMINATION IMPEDANCE : 50 Ohms

TERM. AVG. POWER AT 25° C : 1 W per termination / 3 W total power

ELECTRICAL CHARACTERISTICS

Actuator : NORMALLY OPEN

Nominal current ** : 102 mA

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

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

Indicator rating : 1 W / 30 V / 100 mA

TTL inputs (E) - High level : **2.2 to 5.5 V / 800μA at 5.5 V**

- Low level : 0 to 0.8 V / 20 μ A at 0.8 V

MECHANICAL CHARACTERISTICS

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

Switching Time*** : < 15 ms

Construction : Splashproof

Weight : < 250 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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PAGE **2/2** ISSUE **22-03-22** SERIE: SPnT PART NUMBER: **R574413420 DRAWING** 6 x M3 depth 4 [1.500] Ø38.10 ŝ TTL input RF Continuity D.E E1 = 1 $IN \leftrightarrow \mathbf{1}$ $IN \leftrightarrow 2$ D.F E2 = 1D.G E3 = 1 $\text{IN} \leftrightarrow 3$ E4 = 1 $IN \leftrightarrow 4\,$ D.H [1.760] Ø 44.70 [0.256 min.] 6.50 min. [0.374 min.] 9.50 min. Pin terminals LABEL **RADIALL®** [2.185 max.] 55.50 max. R574413420 0 - 18 GHz [0.303 max.] 7.70 max. Un: 28V Lot : _ _ _ _ BOTTOM VIEW 2 1 2.244 Ø 57 General tolerances: ±0,5 mm [0,02 in] SCHEMATIC DIAGRAM Power input E2 RŢN Vçc E1 terminals TTL-DRIVE Dφ Εφ Indicator terminals Actuators IN n RF inputs

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