Technical Data Sheet



SP4T Terminated Ramses 2.4mm 50GHz Normally open 12Vdc TTL
Diodes Pins Terminals

PAGE 1/2 ISSUE 03-12-20 SERIE : SPnT PART NUMBER : R574J02420

RF CHARACTERISTICS

Number of ways : 4

Frequency range : 0 - 50 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40	40 - 50
VSWR max	1.30	1.40	1.50	1.70	1.90	2.20
Insertion loss max	0.20 dB	0.40 dB	0.50 dB	0.70 dB	0.90 dB	1.20 dB
Isolation min	70 dB	60 dB	60 dB	55 dB	50 dB	50 dB
Average power (*)	40 W	30 W	25 W	15 W	5 W	3 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 ** : 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 : 2.4mm female (Accoding to IEEE STD 287)

Life : 2 million cycles per position

Switching Time*** : <15 ms

Construction : Splashproof

Weight : < 250 g

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : -25°C to +70°C
Storage temperature range : -40°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 **03-12-20** SERIE: SPnT PART NUMBER: R574J02420 **DRAWING** [1.801] 45.75 Ф [1.063] TTL input RF Continuity Ø 27 E2 = 1 $IN \leftrightarrow 2\,$ $IN \leftrightarrow 3$ E3 = 1E5 = 1 $\text{IN} \leftrightarrow 5$ [0.171] $IN \leftrightarrow 6$ E6 = 1 $4 \times 0 4.35$ 0 [2.250] □ 57.15 [0.256 min.] 6.50 min. LABEL Pin terminals **RADIALL®** R574J02420 2.240 0 - 50 GHz Ø 56.90 Un: 12V [2.264 max.] 57.50 max. Lot : _ _ _ _ BOTTOM VIEW [0.264 max.] 6.70 max. 5 6 [0.085] 2.15 General tolerances: ±0,5 mm [0,02 in] SCHEMATIC DIAGRAM Power input WARNING
Sensitive connector: To avoid irreversible damage during any connexions, ensure that the center contact is aligned with the female socket RTN E2 terminals TTL-DRIVE Actuators IN

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RF inputs

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