Technical Data Sheet



SP4T Terminated Ramses SMA 18GHz Normally open 12Vdc BCD TTL

Diodes D-sub connector

PAGE 1/2 ISSUE 22-03-22 SERIE : SPnT PART NUMBER : R574402485

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 ** : 250 mA

Actuator voltage (Vcc) : 12V (10.2 to 13V)

Terminals : 25 pins D-SUB male connector BCD inputs (E) - High level : 3.5 to 5.5 V / 800µA at 5.5 V

- Low level : 0 to 1.5 V / 20µA at 0.8 V

MECHANICAL CHARACTERISTICS

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

Switching Time*** : < 15 msConstruction : 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)



Technical Data Sheet



IN

SP4T Terminated Ramses SMA 18GHz Normally open 12Vdc BCD TTL

Diodes D-sub connector

PAGE **2/2** ISSUE **22-03-22** SERIE: SPnT PART NUMBER: **R574402485 DRAWING** 6 x M3 depth 4 1.760 **6** Ø 44.70 BCD TRUTH TABLE 2 E3 E2 Ε1 RF continuity 0 0 Last Position 1 1 1 All ports open 1.500 0 0 1 IN ↔ 1 Ø 38.10 **6** 0 1 0 $\text{IN} \leftrightarrow 2$ 0 1 1 $IN \leftrightarrow 3$ 0 0 $IN \leftrightarrow 4$ 25 pins D-SUB male connector 4-40 UNC LABEL TOP VIEW Æ2 **RADIALL®** [2.618 max.] 66.50 max. [2.421 max.] 61.50 max. 1000000000000000 R574402485 00000,,,000 [0.303 max.] 7.70 max. 0 - 18 GHz GND Vcc Un: 12V Lot : _ _ _ _ BOTTOM VIEW 2 1 2.244 \emptyset 57 General tolerances: ±0,5 mm [0,02 in] **SCHEMATIC DIAGRAM** Power input terminals RTN E3 Vcc E2 BCD DECODER AND TTL LOGIC / POWER BREAKER CIRCUITRY Actuators

This document contains proprietary information and such information shall not be disclosed to any third party for any purpose whatsoever or used for manufacturing purposes without prior written agreement from Radiall. The data defined in this document are given as an indication, in the effort to improve our products; we reserve the right to make any changes judged necessary.

n

RF inputs