Technical Data Sheet



SP8T Terminated Ramses SMA 18GHz Normaly open 28Vdc BCD TTL

Drive D-sub connector

PAGE 1/2 ISSUE 17.12.14 SERIE : SPnT PART NUMBER : R574403885

RF CHARACTERISTICS

Number of ways : 8

Frequency range : 0 - 18 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 16	16 - 18
VSWR max	1.20	1.30	1.40	1.50	1.60
Insertion loss max	0.20 dB	0.30 dB	0.40 dB	0.55 dB	0.60 dB
Isolation min	80 dB	70 dB	60 dB	60 dB	60 dB
Average power (*)	240 W	150 W	120 W	110 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 : 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 / $20\mu A$ at 0.8 V

MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012 Life : 2.000.000 cycles per position

Switching Time*** : < 15 msConstruction : Splashproof
Weight : < 280 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



SP8T Terminated Ramses SMA 18GHz Normaly open 28Vdc BCD TTL

Drive D-sub connector

PAGE **2/2** ISSUE 17.12.14 SERIE: SPnT PART NUMBER: **R574403885 DRAWING** ø44,7 ø57,15 4 holes M3 /90° **BCD TRUTH TABLE** ø49,8 depth 4 mm E3 E4 E2 E1 RF continuity MARKING 0 0 0 0 Last Position All ports open 0 0 $IN \leftrightarrow \mathbf{1}$ 0 0 0 $IN \leftrightarrow 2$ 0 0 $IN \leftrightarrow 3$ 1 0 0 0 $IN \leftrightarrow 4$ 0 $IN \leftrightarrow \mathbf{5}$ 0 0 1 1 0 $IN \leftrightarrow 6$ 4-40 UNC 0 1 1 1 $\text{IN} \leftrightarrow 7$ 25 pins D-SUB male connector 0 0 $IN \leftrightarrow 8$ **LABEL** TOP VIEW **RADIALL®** R574403885 0 - 18 GHz 99 Un: 28V Lot : _ _ _ **BOTTOM** General tolerances: ±0.5 mm SCHEMATIC DIAGRAM Power input RTN terminals 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.

RF inputs