Technical Data Sheet



SP4T Terminated Ramses SMA 18GHz Normally open Indicators 12Vdc BCD TTL Drive D-sub connector

PAGE 1/2 ISSUE 26-01-17 SERIE : SPnT PART NUMBER : R574412485

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

Indicator rating : 1 W / 30 V / 100 mA

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 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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SP4T Terminated Ramses SMA 18GHz Normally open Indicators 12Vdc BCD TTL Drive D-sub connector

PAGE **2/2** ISSUE 26-01-17 SERIE: SPnT PART NUMBER: **R574412485 DRAWING** 6 x M3 depth 4 [1.760] 0 0 Ø 44.70 **BCD TRUTH TABLE** 2 E3 E2 E1 RF continuity Ind. 0 0 Last Position 1 1 All ports open 1.500 0 $IN \leftrightarrow 1$ D.E 0 ້⊅38.10ໍ IN ↔ 2 0 0 0 D.F 1 0 1 1 $IN \leftrightarrow 3$ D.G 0 0 $\text{IN} \leftrightarrow 4$ D.H 25 pins D-SUB male connector 4-40 UNC LABEL TOP VIEW **RADIALL®** [2.618 max.] 66.50 max. [2.421 max.] 61.50 max. R574412485 [0.303 max.] 7.70 max. 0 - 18 GHz Un: 12V Lot : _ _ _ _ воттом VIEW 2.244 Ø 57 General tolerances: ±0,5 mm [0,02 in] SCHEMATIC DIAGRAM Power input terminals RTN E3 Vçc E1 E2 BCD DECODER AND TTL LOGIC / POWER BREAKER CIRCUITRY D∳ Ε¢ Indicator terminals Actuators

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RF inputs

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