Technical Data Sheet



SP6T Terminated Ramses SMA 3GHz Normally open 12Vdc BCD TTL

Diodes D-sub connector

PAGE 1/2 ISSUE 22-03-22 SERIE : SPnT PART NUMBER : R574302685

RF CHARACTERISTICS

Number of ways : 6

Frequency range : 0 - 3 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3
VSWR max	1.20
Insertion loss max	0.20 dB
Isolation min	80 dB
Average power (*)	240 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 / $20\mu A$ 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)



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SP6T Terminated Ramses SMA 3GHz Normally open 12Vdc BCD TTL Diodes D-sub connector

PAGE **2/2** ISSUE **22-03-22** SERIE: SPnT PART NUMBER: **R574302685 DRAWING** 6 x M3 depth 4 [1.760] 0 Ø 44.70 **BCD TRUTH TABLE** E3 E2 E1 RF continuity 0 0 Last Position 1 1 All ports open 1.500 0 0 1 $IN \leftrightarrow 1$ Ø38.10 0 1 0 $\text{IN} \leftrightarrow 2$ 0 1 1 $IN \leftrightarrow 3$ 1 0 0 $IN \leftrightarrow 4$ 25 pins D-SUB male connector 0 1 $IN \leftrightarrow 5$ 4-40 UNC 0 $IN \leftrightarrow 6$ **LABEL** TOP VIEW E2 **RADIALL®** [2.618 max.] 66.50 max. [2.421 max.] 61.50 max. 10000000060000 R574302685 00000 [0.303 max.] 7.70 max. 0 - 3 GHz Vcc E1 GND Un: 12V BOTTOM VIEW Lot : _ _ _ _ 6 () 3 1 2 2.244 \emptyset 57 General tolerances: ±0,5 mm [0,02 in] **SCHEMATIC DIAGRAM** Power input terminals RTN Vcc E2 E3 BCD DECODER AND TTL LOGIC / POWER BREAKER CIRCUITRY Actuators

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RF inputs

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