Technical Data Sheet



SPDT Ramses SMA 18GHz Failsafe 12Vdc TTL Diodes Pins Terminals

PAGE 1/2 ISSUE 22-03-22 SERIE : SPDT PART NUMBER : R570412100

RF CHARACTERISTICS

Frequency range : 0 - 18 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 18
VSWR max	1.10	1.20	1.20	1.40
Insertion loss max	0.15 dB	0.20 dB	0.25 dB	0.35 dB
Isolation min	80 dB	75 dB	65 dB	60 dB
Average power (*)	240 W	150 W	120 W	100 W

ELECTRICAL CHARACTERISTICS

Actuator : FAILSAFE
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 / $800\mu A$ at 5.5 V

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

MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012

Life : 10 million cycles

Switching Time*** : < 10 ms

Construction : Splashproof

Weight : < 45 g

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range $: -40^{\circ}\text{C to } +85^{\circ}\text{C}$ Storage temperature range $: -55^{\circ}\text{C to } +85^{\circ}\text{C}$

(* Average power at 25°C per RF Path)

(** At 25° C ±10%)

(*** Nominal voltage; 25° C)



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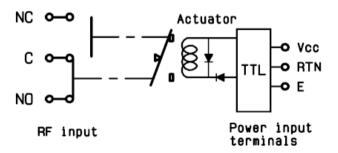
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PAGE **2/2** ISSUE **22-03-22** SERIE: SPDT PART NUMBER: **R570412100 DRAWING** [1.343] 34.10 Π [0.303 max.] 7.70 max. **LABEL** [0.138 min.] 3.50 min. 1.528 max. 38.80 max. GND Vcc [0.122] 4 x Ø 3.10 **RADIALL®** R570412100 0 - 18 GHz Un: 12V Lot : _ _ _ 0.441 0.134 11.20 С NO NC 0.880 22.35 1.319 33.50 1.500 38.10 **3** 0 **o** o

General tolerances: ±0,5 mm [0,02 in]

SCHEMATIC DIAGRAM

Position Energized:



TTL input	RF Continuity	
E = 0	$C \leftrightarrow NC$	
E = 1	$C \leftrightarrow NO$	

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