Technical Data Sheet



SPDT Ramses Low PIM SMA 18GHz Failsafe 12Vdc Diodes Pins Terminals

PAGE 1/2 ISSUE 22-03-22 SERIE : SPDT PART NUMBER : R570412030LP

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

	Passive intermodulation	
Tone 1	1810 MHz, approximately 43 dBm	
Tone 2	1850 MHz, approximately 43 dBm	
3 rd order PIM	- 160 dBc at 1770 MHz	

Depending on application, carrier powers and frequencies, PIM measurements can vary. PIM testing is not measured during product acceptance test.

ELECTRICAL CHARACTERISTICS

Actuator : FAILSAFE
Nominal current ** : 250 mA

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

Terminals : solder pins (250°C max. / 30 sec.)

MECHANICAL CHARACTERISTICS

Connectors***** : SMA female per MIL-C 39012

Life : 2 million cycles
Switching Time*** : < 10 ms
Construction : Splashproof
Weight : < 45 g

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : -25°C to +70°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)

(***** Recommended mating torque: 80-120 N.cm)



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PAGE **2/2** ISSUE **22-03-22** SERIE: SPDT PART NUMBER: R570412030LP **DRAWING** [1.343] 34.10 [0.303 max.] 7.70 max. LABEL [0.138 min.] 3.50 min. [1.528 max.] 38.80 max. [0.122] 4 x Ø 3.10 **RADIALL®** R570412030LP 0 - 18 GHz Un: 12V Lot : _ _ _ _ [0.441] $\begin{bmatrix} 0.134 \\ 3.40 \end{bmatrix}$ 11.20 NO С NC 0.880 22.35 1.319 33.50 1.500

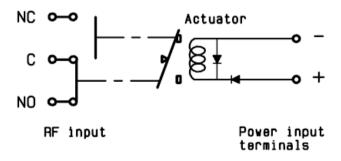
General tolerances: ±0,5 mm [0,02 in]

38.10

SCHEMATIC DIAGRAM

Position Energized:

3



Voltage	RF Continuity	
De-energized	$C \leftrightarrow NC$	
energized	$C \leftrightarrow NO$	

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