## **Technical Data Sheet**



SP6T Ramses Low PIM N 12.4GHz Normally open 28Vdc Positive common

D-sub connector

PAGE 1/2 ISSUE 06-02-18 SERIE : SPnT PART NUMBER : R573103615LP

#### **RF CHARACTERISTICS**

Number of ways : 6

Frequency range : 0 - 12.4 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4
VSWR max	1.20	1.35	1.50
Insertion loss max	0.20 dB	0.35 dB	0.50 dB
Isolation min	80 dB	70 dB	60 dB
Average power (*)	400 W	250 W	200 W

	Passive intermodulation	
Tone 1	1810 MHz, approximately 43 dBm	
Tone 2	1850 MHz, approximately 43 dBm	
3 <sup>rd</sup> 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 : NORMALLY OPEN

Nominal current \*\* : 102 mA

Actuator voltage (Vcc) : 28V (24 to 30V) / POSITIVE COMMON
Terminals : 25 pins D-SUB male connector

#### MECHANICAL CHARACTERISTICS

Connectors\*\*\*\* : N female per MIL-C 39012
Life : 2 million cycles per position

Switching Time\*\*\* : <15 ms

Construction : Splashproof

Weight : < 460 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: 300 N.cm)



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.

## **Technical Data Sheet**

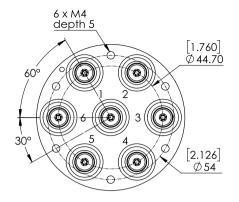


SP6T Ramses Low PIM N 12.4GHz Normally open 28Vdc Positive common

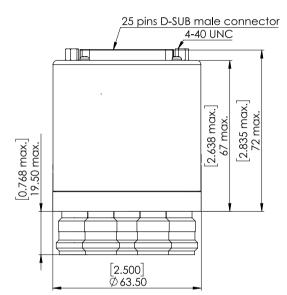
D-sub connector

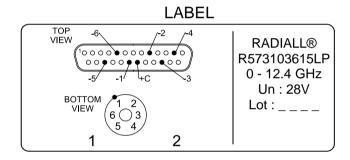
PAGE 2/2 ISSUE 06-02-18 SERIE : SPnT PART NUMBER : R573103615LP

#### **DRAWING**



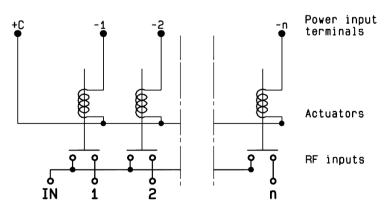
Voltage	RF Continuity
+C -1	IN ↔ 1
+C -2	$IN \leftrightarrow 2$
+C -3	IN ↔ 3
+C -4	IN ↔ 4
+C -5	IN ↔ 5
+C -6	IN ↔ 6





General tolerances: ±0,5 mm [0,02 in]

### SCHEMATIC DIAGRAM



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.

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Radiall:

R573103615LP