# **Technical Data Sheet**



SP12T Ramses SMA 12.4GHz Latching 28Vdc Positive common D-sub connector

PAGE 1/2 | ISSUE 22-03-22 | SERIE : SPNT | PART NUMBER : R573423215

#### RF CHARACTERISTICS

Number of ways : 12

Frequency range : 0 - 12.4 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4
VSWR max	1.20	1.40	1.60
Insertion loss max	0.20 dB	0.40 dB	0.60 dB
Isolation min	80 dB	70 dB	60 dB
Average power (*)	240 W	150 W	120 W

### **ELECTRICAL CHARACTERISTICS**

Actuator : LATCHING

Nominal current \*\* : 125 mA / RESET : 1500 mA \*\*\*\*

Actuator voltage (Vcc) : 28V (24 to 30V) / POSITIVE COMMON

Terminals : 44 pins D-SUB male connector

### MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012 Life : 2 million cycles per position

Switching Time\*\*\* : < 15 msConstruction : Splashproof
Weight : < 400 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)

(\*\*\*\* Reset : supply voltage time 1sec. max. / duty cycle 10%)



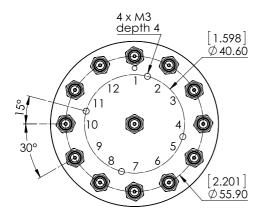
## **Technical Data Sheet**



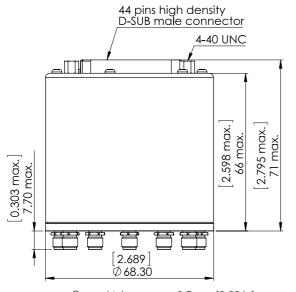
SP12T Ramses SMA 12.4GHz Latching 28Vdc Positive common D-sub connector

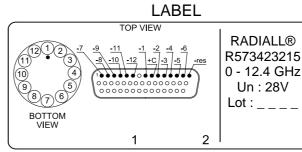
PAGE 2/2 ISSUE 22-03-22 SERIE : SPnT PART NUMBER : R573423215

#### **DRAWING**



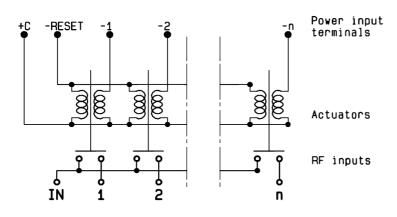
Voltage	RF Continuity	
+C -RESET	All ports open	
+C -1	$IN \leftrightarrow 1$	
+C -2	$IN \leftrightarrow 2$	
+C -3	$IN \leftrightarrow 3$	
+C -4	$IN \leftrightarrow 4$	
+C -5	IN ↔ 5	
+C -6	$IN \leftrightarrow 6$	
+C -7	$IN \leftrightarrow 7$	
+C -8	IN ↔ 8	
+C -9	IN ↔ 9	
+C -10	IN ↔ 10	
+C -11	IN ↔ 11	
+C -12	IN ↔ 12	





General tolerances :  $\pm 0.5$  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.