Technical Data Sheet



SP12T Terminated Ramses SMA 18GHz Latching 28Vdc Positive common

Diodes Pins Terminals

PAGE 1/2 ISSUE 25-11-22 SERIE : SPNT PART NUMBER : R574F23240

RF CHARACTERISTICS

Number of ways : 12

Frequency range : 0 - 18 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 15	15 - 18
VSWR max	1,20	1,40	1,60	1,70	1,80
Insertion loss max	0.20 dB	0.40 dB	0.60 dB	0.70 dB	0.80 dB
Isolation min	80 dB	70 dB	60 dB	60 dB	50 dB
Average power (*)	240 W	150 W	120 W	110 W	100 W

TERMINATION IMPEDANCE : 50 Ohms

TERM. AVG. POWER AT 25° C : 1 W per termination / 3 W total power

ELECTRICAL CHARACTERISTICS

Actuator : LATCHING

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

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

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

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%)



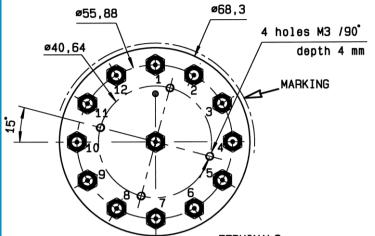
Technical Data Sheet



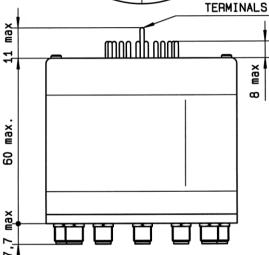
SP12T Terminated Ramses SMA 18GHz Latching 28Vdc Positive common Diodes Pins Terminals

PAGE 2/2 ISSUE 25-11-22 SERIE : SPnT PART NUMBER : R574F23240

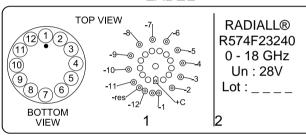
DRAWING



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 ↔ 4		
+C -5	IN ↔ 5		
+C -6	IN ↔ 6		
+C -7	IN ↔ 7		
+C -8	IN ↔ 8		
+C -9	IN ↔ 9		
+C -10	IN ↔ 10		
+C -11	IN ↔ 11		
+C -12	IN ↔ 12		



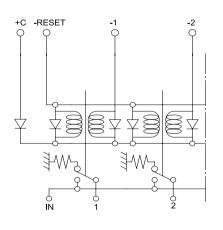
LABEL

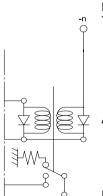




General tolerances : ± 0.5 mm [0,02 in]

SCHEMATIC DIAGRAM





Power Input Terminals

Actuators

RF inputs

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.