Technical Data Sheet



SP6T Terminated Ramses SMA2.9 40GHz Latching Self-cut-off Auto-reset 12Vdc BCD TTL Diodes Pins Terminals

PAGE 1/2 ISSUE 10-04-25 SERIE : SPnT PART NUMBER : R574882680

RF CHARACTERISTICS

Number of ways : 6

Frequency range : 0 - 40 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40
VSWR max	1.30	1.40	1.50	1.70	1.95
Insertion loss max	0.20 dB	0.40 dB	0.50 dB	0.70 dB	1.00 dB
Isolation min	80 dB	70 dB	70 dB	60 dB	55 dB
Average power (*)	40 W	30 W	25 W	15 W	5 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 ** : 960 mA

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

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

Self cut-off time : 40 ms < CT < 120 ms

BCD inputs (E) - High level : $3.5 \text{ to } 5.5 \text{ V} \text{ / } 800 \mu\text{A} \text{ at } 5.5 \text{ V}$

- Low level : 0 to 1.5 V / 20µA at 0.8 V

MECHANICAL CHARACTERISTICS

Connectors : SMA 2.9 female per MIL-C 39012
Life : 7 million cycles per position

Switching Time*** : < 40 msConstruction : Splashproof
Weight : < 250 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)



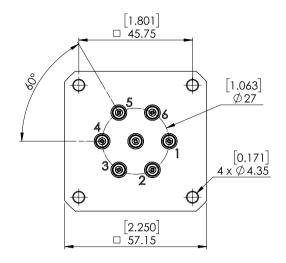




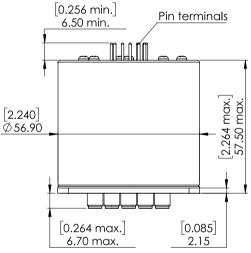
SP6T Terminated Ramses SMA2.9 40GHz Latching Self-cut-off Auto-reset 12Vdc BCD TTL Diodes Pins Terminals

PAGE 2/2 ISSUE 10-04-25 SERIE : SPnT PART NUMBER : R574882680

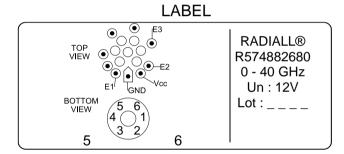
DRAWING



	BCD TRUTH TABLE					
E3	E2	E1	RF continuity			
0	0	0	All ports open (Forced Reset)			
0	0	1	IN ↔ 5			
0	1	0	$IN \leftrightarrow 6$			
0	1	1	$IN \leftrightarrow 1$			
1	0	0	$IN \leftrightarrow 2$			
1	0	1	$IN \leftrightarrow 3$			
1	1	0	$IN \leftrightarrow 4$			

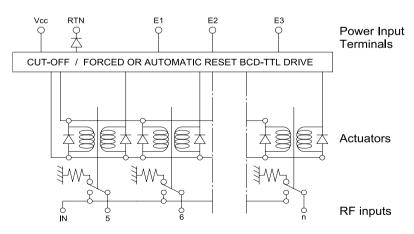








SCHEMATIC DIAGRAM



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.