

PAGE 1/2

ISSUE 12-10-22

SERIE : SPnT

PART NUMBER : R5927B2141

## RF CHARACTERISTICS\*

Number of ways : 6  
Frequency range : 0 - 26.5 GHz  
Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 18	18 - 26.5
VSWR max	1,20	1,30	1,40	1,50	1,60
Insertion loss max	0.20 dB	0.30 dB	0.40 dB	0.50 dB	0.60 dB
Isolation min	80 dB	70 dB	60 dB	60 dB	55 dB
Average power (**)	250 W	150 W	120 W	100 W	40 W

Cryogenic characteristics are not measured during product acceptance test.

RF performances are based on customers test reports.

## ELECTRICAL CHARACTERISTICS

Actuator\*\*\* : LATCHING  
Nominal current at 25°C (±10%) : 100 mA  
Actuator voltage (Vcc) : 12V (10.2 to 13V)  
Terminals : 16 pins double row connector for connecting to 2.54mm pitch female socket wrapping or soldering (250°C max/30 sec)

## MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012  
Life : 10 million cycles per position  
Switching Time : < 10 ms  
Construction : Splashproof  
Weight : < 120 g

## ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : -273°C to +85°C  
Storage temperature range : -273°C to +85°C

(\* Specified with only one way switched)

(\*\* Average power at 25°C per RF Path)

(\*\*\* More than one position can be switched at the same time)



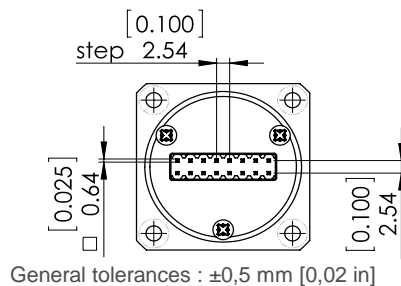
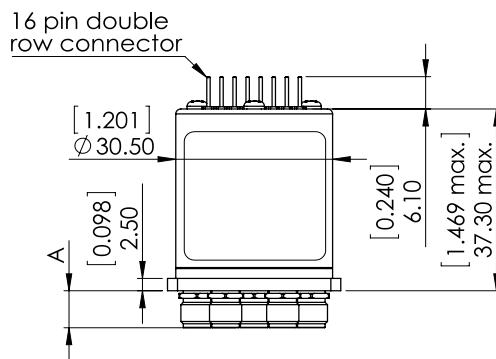
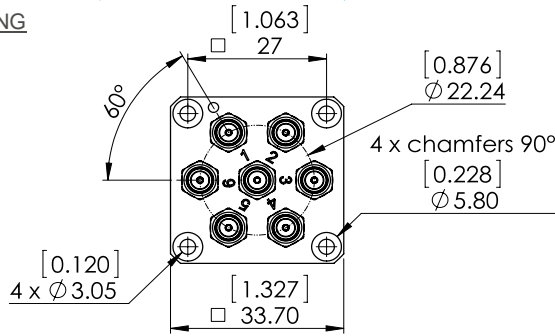
PAGE 2/2

ISSUE 12-10-22

SERIE : SPnT

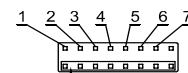
PART NUMBER : R5927B2141

**DRAWING**



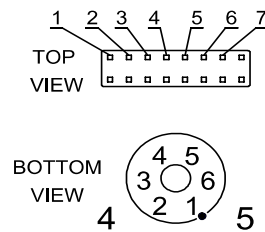
General tolerances : ±0,5 mm [0,02 in]

Voltage		RF Continuity
+	-	
1	2	IN ↔ 1 closed
2	1	IN ↔ 1 open
2	3	IN ↔ 2 closed
3	2	IN ↔ 2 open
3	4	IN ↔ 3 closed
4	3	IN ↔ 3 open
4	5	IN ↔ 4 closed
5	4	IN ↔ 4 open
5	6	IN ↔ 5 closed
6	5	IN ↔ 5 open
6	7	IN ↔ 6 closed
7	6	IN ↔ 6 open



Do not use these pins to avoid malfunction

**LABEL**



RADIALL®  
R5927B2141  
0 - 26.5 GHz  
Un : 12V  
Lot : \_ \_ \_ \_

**SCHEMATIC DIAGRAM**

To reduce impact on system temperature, the same magnetic field can be applied with half current.  
Reset can be accomplished by reversing the direction of current in the circuit.

