

PAGE 1/2

ISSUE 23-02-21

SERIE : SPnT

PART NUMBER : R583423141

### RF CHARACTERISTICS\*

Number of ways : **6**  
 Frequency range : **0 - 18 GHz**  
 Impedance : **50 Ohms**

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 18
VSWR max	<b>1.20</b>	<b>1.30</b>	<b>1.40</b>	<b>1.50</b>
Insertion loss max	<b>0.20 dB</b>	<b>0.30 dB</b>	<b>0.40 dB</b>	<b>0.50 dB</b>
Isolation min	<b>80 dB</b>	<b>70 dB</b>	<b>60 dB</b>	<b>60 dB</b>

Average power (**)	240 W	150 W	120 W	100 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%) : **62.5 mA**  
 Actuator voltage (Vcc) : **28V (24 to 30V)**  
 Terminals : **15 pins D-SUB male connector**

### MECHANICAL CHARACTERISTICS

Connectors : **SMA female per MIL-C 39012**  
 Life : **5.000.000 cycles per position**  
 Switching Time (nominal voltage at 25°C) : **< 15 ms**  
 Construction : **Splashproof**  
 Weight : **< 180 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)



PEN20189059

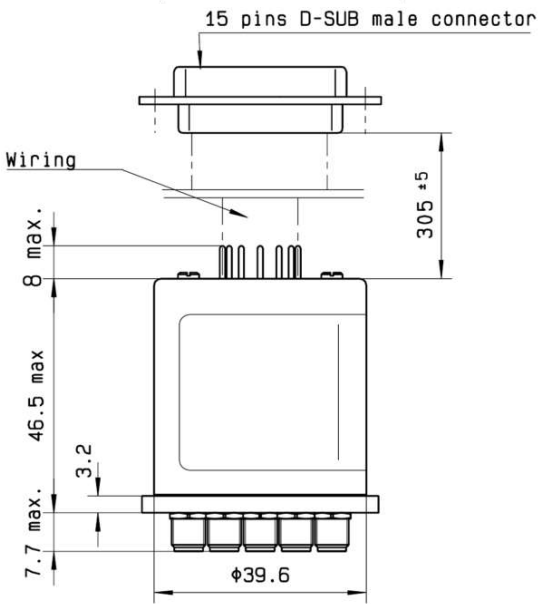
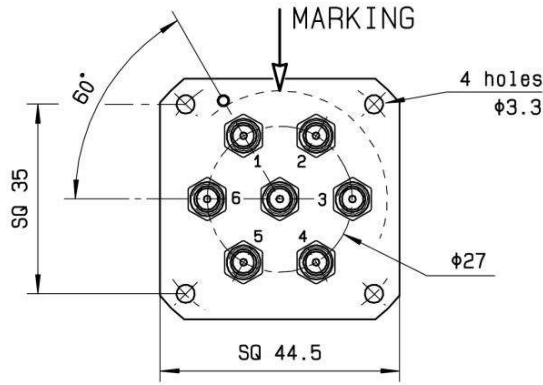
Name : VB

Date : 23/02/2021

23-02-21	Update informations	FJ
Issue	Revision	App.

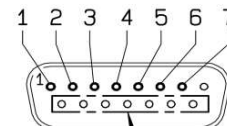
PAGE 2/2	ISSUE 23-02-21	SERIE : SPnT	PART NUMBER : R583423141
----------	----------------	--------------	--------------------------

**DRAWING**



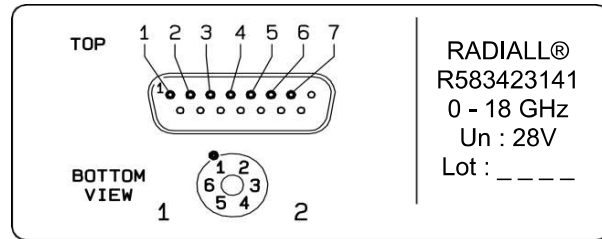
General tolerances : ±0,5 mm

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**



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.

