Technical Data Sheet

Specific SP6T Ramses SMA 18GHz Latching 28Vdc D-SUB Male Connector
Bipolar Actuator Command for cryogenic application

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	**1.20**	**1.30**	**1.40**	**1.50**
Insertion loss max	**0.20 dB**	**0.30 dB**	**0.40 dB**	**0.50 dB**
Isolation min	**80 dB**	**70 dB**	**60 dB**	**60 dB**

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

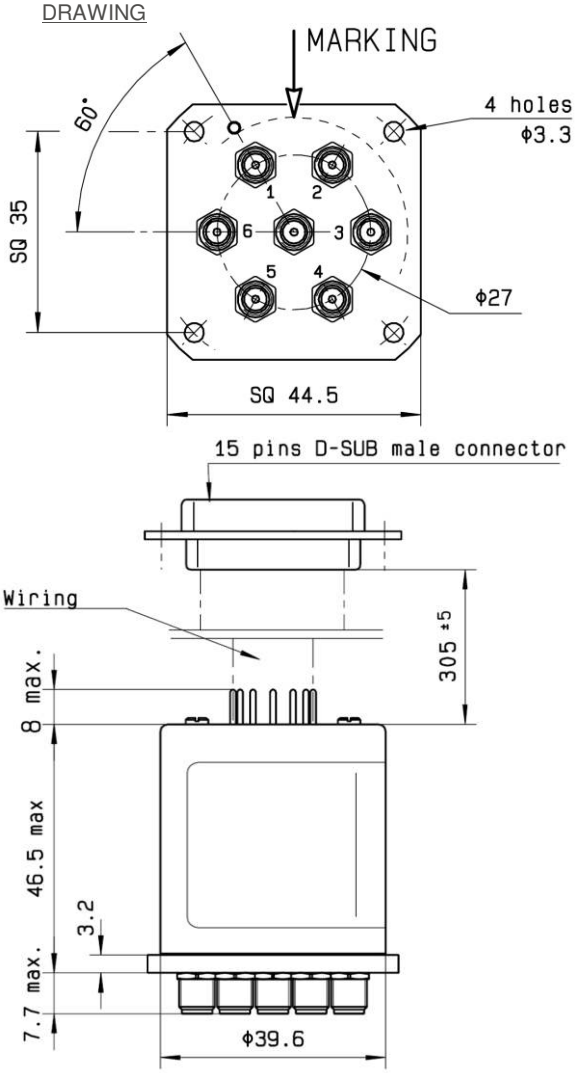
Operating temperature range : **-273°C to +85°C**
Storage temperature range : **-273°C to +85°C**

(* 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)

RoHS COMPLIANT

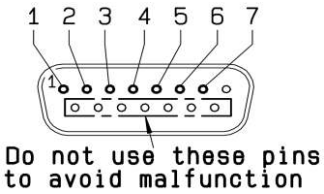
PEN20189059			
Name : VB	23-02-21	Update informations	FJ
Date : 23/02/2021	Issue	Revision	App.

DRAWING

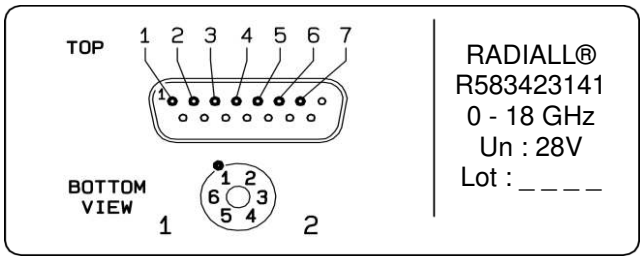


General tolerances : ±0.5 mm

Voltage +	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



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.