Technical Data Sheet

Specific SP6T Ramses Sub-miniature SMA 26.5GHz Latching 12Vdc Pins Terminals
Bipolar Actuator Command for cryogenic application with brass material

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 : **< 160 g**

RF body and cover are made of brass material

ENVIRONMENTAL CHARACTERISTICS

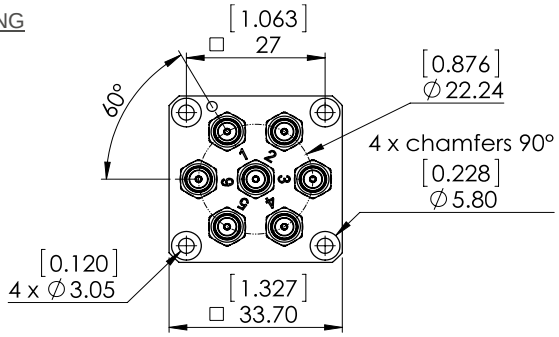
Operating temperature range : **-273°C to +85°C**
Storage temperature range : **-273°C to +85°C**

(* 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)

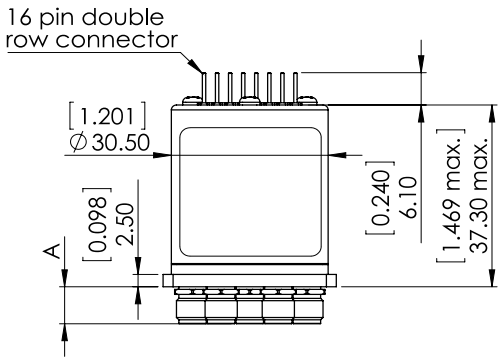
RoHS COMPLIANT

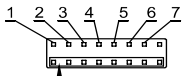
PEN 25013492-10A	17-04-25	TDS approved by the Customer	AB
Name: AB	09-04-25	Final PN Assignment	AB
Date: 20/02/2025	Issue	Revision	App.

DRAWING

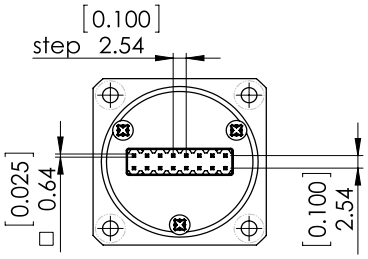


Voltage		
+	-	RF Continuity
1	2	IN ↔ 1 closed
2	1	IN ↔ 1 open
2	3	IN ↔ 2 closed
3	2	IN ↔ 2 open
3	4	IN ↔ 3 closed
4	3	IN ↔ 3 open
4	5	IN ↔ 4 closed
5	4	IN ↔ 4 open
5	6	IN ↔ 5 closed
6	5	IN ↔ 5 open
6	7	IN ↔ 6 closed
7	6	IN ↔ 6 open



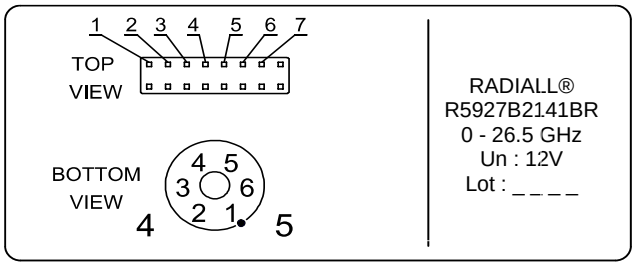


Do not use these pins
to avoid malfunction



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

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.