## **Technical Data Sheet**



SP6T Ramses Low PIM SMA 18GHz Normally open 28Vdc Diodes Pins Terminals

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#### 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

	Passive intermodulation		
Tone 1	1810 MHz, approximately 43 dBm		
Tone 2	1850 MHz, approximately 43 dBm		
3 <sup>rd</sup> order PIM	- 160 dBc at 1770 MHz		

Depending on application, carrier powers and frequencies, PIM measurements can vary. PIM testing is not measured during product acceptance test.

#### **ELECTRICAL CHARACTERISTICS**

Actuator : NORMALLY OPEN

Nominal current \*\* : 102 mA

Actuator voltage (Vcc) : 28V (24 to 30V) / NEGATIVE COMMON
Terminals : solder pins (250°C max. / 30 sec.)

### MECHANICAL CHARACTERISTICS

Connectors\*\*\*\*\* : SMA female per MIL-C 39012
Life : 2 million cycles per position

Switching Time\*\*\* : < 15 ms

Construction : Splashproof

Weight : < 180 g

#### **ENVIRONMENTAL CHARACTERISTICS**

Operating temperature range : -25°C to +70°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)

(\*\*\*\*\* Recommended mating torque: 80-120 N.cm)



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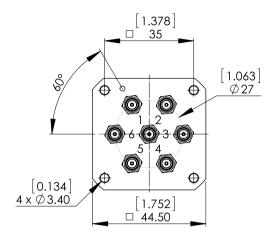
# **Technical Data Sheet**



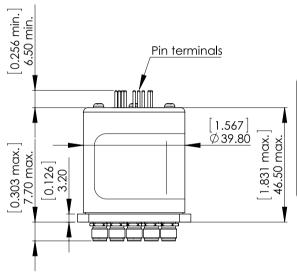
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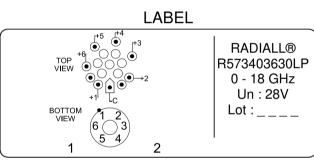
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#### **DRAWING**



Voltage	RF Continuity	
-C +1	$IN \leftrightarrow 1$	
-C +2	$IN \leftrightarrow 2$	
-C +3	$IN \leftrightarrow 3$	
-C +4	$IN \leftrightarrow 4$	
-C +5	IN ↔ 5	
-C +6	$IN \leftrightarrow 6$	

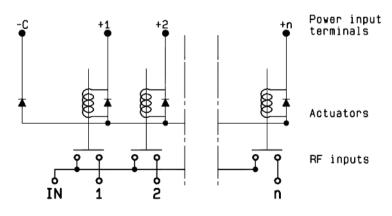






General tolerances: ±0,5 mm [0,02 in]

## SCHEMATIC DIAGRAM



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