# **Technical Data Sheet**



SP8T Terminated Ramses SMA 18GHz Normally open 12Vdc BCD TTL

Diodes D-sub connector

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### RF CHARACTERISTICS

Number of ways : 8

Frequency range : 0 - 18 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 3	3 - 8	8 - 12.4	12.4 - 16	16 - 18
VSWR max	1,20	1,30	1,40	1,50	1,60
Insertion loss max	0.20 dB	0.30 dB	0.40 dB	0.55 dB	0.60 dB
Isolation min	80 dB	70 dB	60 dB	60 dB	60 dB
Average power (*)	240 W	150 W	120 W	110 W	100 W

TERMINATION IMPEDANCE : 50 Ohms

TERM. AVG. POWER AT 25° C : 1 W per termination / 3 W total power

### **ELECTRICAL CHARACTERISTICS**

Actuator : NORMALLY OPEN

Nominal current \*\* : 250 mA

Actuator voltage (Vcc) : 12V (10.2 to 13V)

Terminals : 25 pins D-SUB male connector BCD inputs (E) - High level : 3.5 to 5.5 V / 800µA at 5.5 V

- Low level : 0 to 1.5 V / 20µA at 0.8 V

## MECHANICAL CHARACTERISTICS

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

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

Construction : Splashproof

Weight : < 280 g

## **ENVIRONMENTAL CHARACTERISTICS**

Operating temperature range : -40°C to +85°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)



# **Technical Data Sheet**

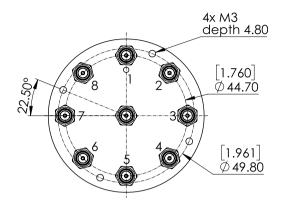


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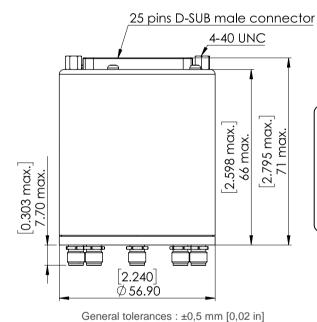
Diodes D-sub connector

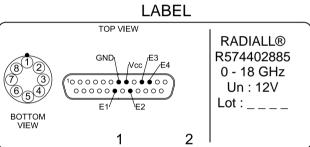
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#### **DRAWING**



BCD TRUTH TABLE					
E4	E3	E2	E1	RF continuity	
0	0	0	0	Last Position	
1	1	1	1	All ports open	
0	0	0	1	IN ↔ 1	
0	0	1	0	$IN \leftrightarrow 2$	
0	0	1	1	IN ↔ 3	
0	1	0	0	IN ↔ 4	
0	1	0	1	IN ↔ 5	
0	1	1	0	IN ↔ 6	
0	1	1	1	IN ↔ 7	
1	0	0	0	IN ↔ 8	

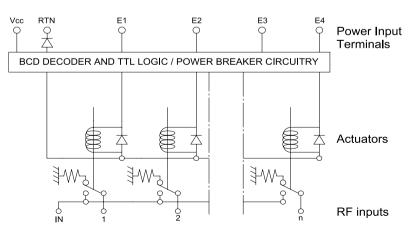






#### General tolerances . ±0,5 mm [0,02 m

### SCHEMATIC DIAGRAM



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