# **Technical Data Sheet**



SP4T Terminated Ramses SMA 18GHz Latching Self-cut-off Auto-reset Indicators 12Vdc TTL Diodes D-sub connector

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#### RF CHARACTERISTICS

Number of ways : 4

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

TERMINATION IMPEDANCE : 50 Ohms

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

#### **ELECTRICAL CHARACTERISTICS**

Actuator : LATCHING
Nominal current \*\* : 640 mA

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

Terminals : 25 pins D-SUB male connector

 $\begin{array}{ll} \mbox{Indicator rating} & : 1 \mbox{ W / 30 V / 100 mA} \\ \mbox{Self cut-off time} & : 40 \mbox{ ms} < \mbox{CT} < 120 \mbox{ ms} \\ \end{array}$ 

TTL inputs (E) - High level : 2.2 to 5.5 V / 800 $\mu$ A at 5.5 V - Low level : 0 to 0.8 V / 20 $\mu$ A at 0.8 V

### MECHANICAL CHARACTERISTICS

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

Switching Time\*\*\* : < 40 ms

Construction : Splashproof

Weight : < 250 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)



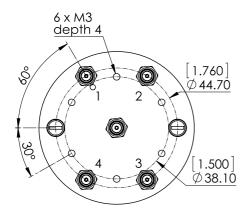




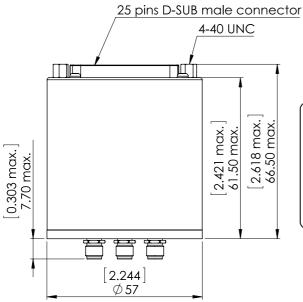
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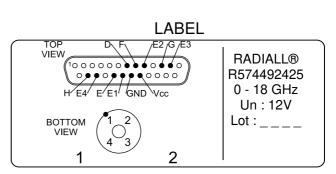
#### **DRAWING**



TTL input	RF Continuity	Ind.
E1 = 1	$IN \leftrightarrow 1$	D.E
E2 = 1	$IN \leftrightarrow 2$	D.F
E3 = 1	$IN \leftrightarrow 3$	D.G
E4 = 1	$IN \leftrightarrow 4$	D.H

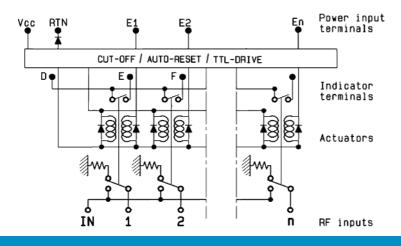


General tolerances: ±0,5 mm [0,02 in]





## SCHEMATIC DIAGRAM



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