



SP4T Ramses SMA 18GHz Latching Self-cut-off Auto-reset Indicators 12Vdc BCD 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

### **ELECTRICAL CHARACTERISTICS**

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

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

Terminals : 25 pins D-SUB male connector

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

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 : 5 million cycles per position

Switching Time\*\*\* : < 40 msConstruction : Splashproof
Weight : < 220 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)



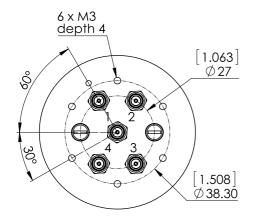




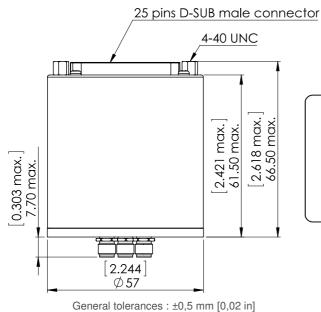
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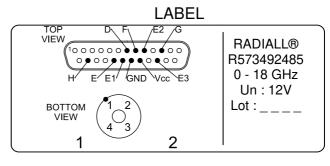
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#### **DRAWING**



BCD TRUTH TABLE					
E3	E2	E1	RF continuity	Ind.	
0	0	0	All ports open (Forced Reset)		
0	0	1	IN ↔ 1	D.E	
0	1	0	$IN \leftrightarrow 2$	D.F	
0	1	1	$IN \leftrightarrow 3$	D.G	
1	0	0	$IN \leftrightarrow 4$	D.H	

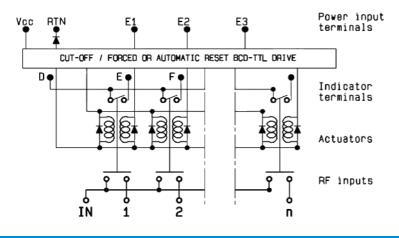






### General tolerances . ±0,5 mm [0,02 m

## SCHEMATIC DIAGRAM



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