# **Technical Data Sheet**



SP4T Ramses 1.85mm 67GHz Latching 12Vdc TTL Diodes D-sub connector

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## RF CHARACTERISTICS

Number of ways : 4

Frequency range : 0 - 67 GHz Impedance : 50 Ohms

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40	40 - 50	50 - 65	65 - 67
VSWR max	1.30	1.40	1.50	1.70	1.90	2.20	2.20	2.20
Insertion loss max	0.30 dB	0.40 dB	0.50 dB	0.70 dB	0.90 dB	1.20 dB	1.40 dB	1.70 dB
Isolation min	70 dB	60 dB	60 dB	55 dB	50 dB	50 dB	50 dB	50 dB
Average power (*)	40 W	30 W	25 W	15 W	5 W	3 W	1 W	1 W

## **ELECTRICAL CHARACTERISTICS**

Actuator : LATCHING

Nominal current \*\* : 320 mA / RESET : 1280 mA \*\*\*\*

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

Terminals : 25 pins D-SUB male connector TTL inputs (E) - High level : 2.2 to 5.5 V / 800µA at 5.5 V

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

## MECHANICAL CHARACTERISTICS

Connectors : 1.85mm female (Accoding to IEEE STD 287)

Life : 2 million cycles per position

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

Construction : Splashproof

Weight : < 220 g

## **ENVIRONMENTAL CHARACTERISTICS**

Operating temperature range : -25°C to +70°C
Storage temperature range : -40°C to +85°C

(\* Average power at 25°C per RF Path)

(\*\* At 25° C ±10%)

(\*\*\* Nominal voltage; 25° C)

(\*\*\*\* Reset : supply voltage time 1sec. max. / duty cycle 10%)



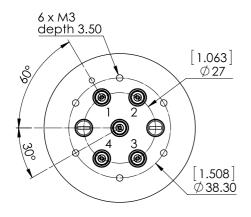
# **Technical Data Sheet**



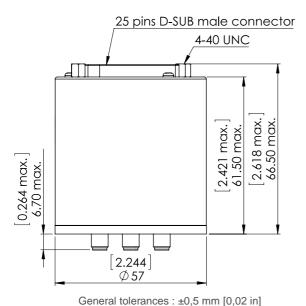
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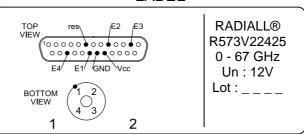
## **DRAWING**



TTL input	RF Continuity		
RESET = 1	All ports open		
E1 = 1	$IN \leftrightarrow 1$		
E2 = 1	$IN \leftrightarrow 2$		
E3 = 1	IN ↔ 3		
E4 = 1	IN ↔ 4		



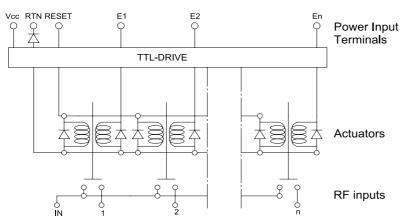
# LABEL

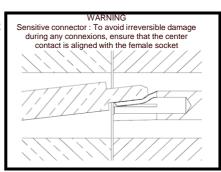




## General tolerances : ±0,5 mm [0,02 m

## SCHEMATIC DIAGRAM





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