



**18 GHz SMA LATCHING S.P.3 T. SWITCH**

OPTIONS : / TTL DRIVE / SUPP.DIODES

**R F CHARACTERISTICS**

NUMBER OF WAYS : 3  
FREQUENCY RANGE : 0 - 18 GHz  
IMPEDANCE : 50 Ohms

|                 |         |         |         |          |
|-----------------|---------|---------|---------|----------|
| FREQUENCY (GHz) | 0 - 3   | 3 - 8   | 8 -12.4 | 12.4- 18 |
| V.S.W.R <=      | 1.20    | 1.30    | 1.40    | 1.50     |
| INSERT. LOSS <= | 0.20 dB | 0.30 dB | 0.40 dB | 0.50 dB  |
| ISOLATION >=    | 80 dB   | 70 dB   | 60 dB   | 60 dB    |
| AVER. POWER (*) | 240 W   | 150 W   | 120 W   | 100 W    |

**ELECTRICAL CHARACTERISTICS**

ACTUATOR : LATCHING  
NOMINAL CURRENT AT 25° C (±10%) : 125 mA / RESET : 375 mA (\*\*)  
ACTUATOR VOLTAGE (Vcc) : 28V (24 to 30V) / NEGATIVE COMMON  
TERMINALS : 25 pins D-SUB male connector  
TTL INPUTS (E) - High level : 2.2 to 5.5V / 800µA at 5V  
- Low level : 0 to 0.8V / 20µA at 0.8V

**MECHANICAL CHARACTERISTICS**

CONNECTORS : SMA female per MIL C 39012  
LIFE : 5.000.000 cycles per position  
SWITCHING TIME (nominal voltage;25° C) : < 15 ms  
CONSTRUCTION : splashproof  
WEIGHT : < 220 g

**ENVIRONMENTAL CHARACTERISTICS**

OPERATING TEMPERATURE RANGE (°C) : -40 , +85  
STORAGE TEMPERATURE RANGE (°C) : -55 , +85

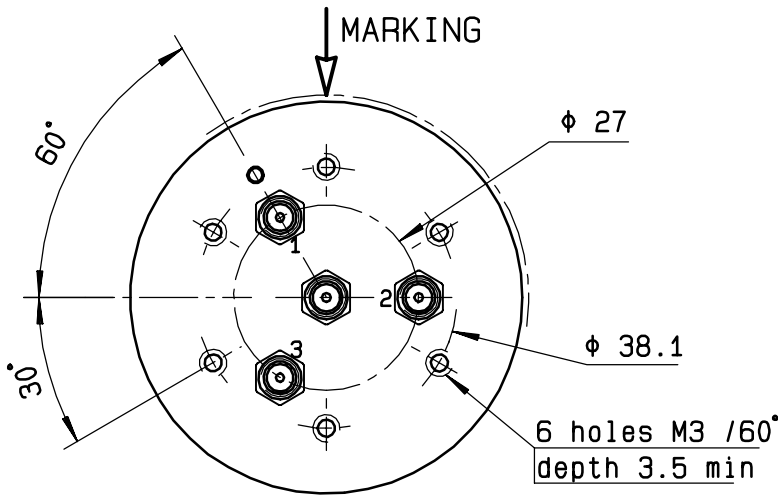
(\* : average power at 25° C per RF path)  
(\*\* RESET : supply voltage time 1sec. max./duty cycle 10%)

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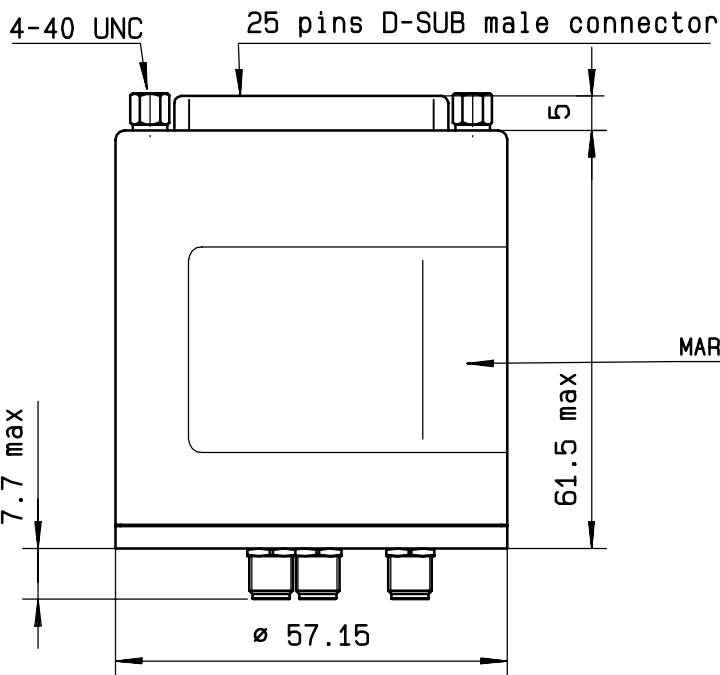
**DRAWING**

General tolerance: ± 0,5 mm

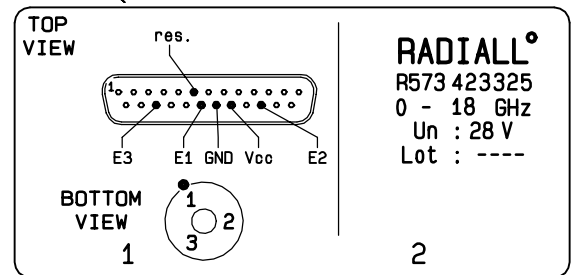
**R573 423 325**



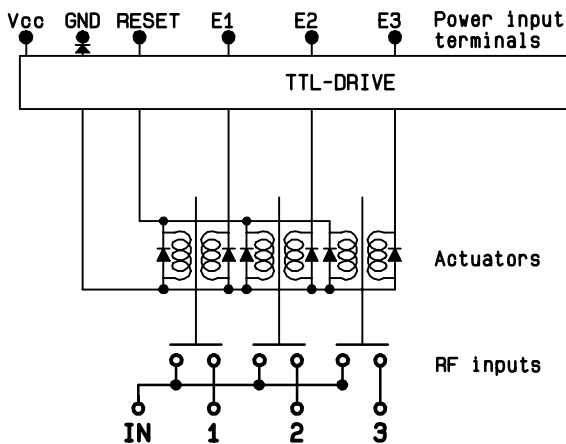
| TTL input | RF continuity  |
|-----------|----------------|
| RESET = 1 | All ports open |
| E1 = 1    | IN ↔ 1         |
| E2 = 1    | IN ↔ 2         |
| E3 = 1    | IN ↔ 3         |



MARKING TOP VIEW (TERMINALS)



**SCHEMATIC DIAGRAM**



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