

This information is given as an indication. In the continual goal to improve our products, we reserve the right to make any modifications judged necessary



**50Ω TERMINATED 18 GHz SMA LATCHING S.P.4 T. SWITCH**

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OPTIONS: INDICATOR /SELF CUT-OFF /AUTO RESET /BCD DECODER /SUPP.DIODES

### RF CHARACTERISTICS

NUMBER OF WAYS : 4  
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    |

TERMINATION IMPEDANCE : 50 Ohms  
TERMINATION AVG. POWER AT 25° C : 1 W per termination  
3 W total power

### ELECTRICAL CHARACTERISTICS

ACTUATOR : LATCHING  
NOMINAL CURRENT AT 25° C (\*10%) : 250 mA  
ACTUATOR VOLTAGE (Vcc) : 28V (24 to 30V) / NEGATIVE COMMON  
TERMINALS : solder pins (250°C max./30 sec.)  
INDICATOR RATING : 1 W / 30 V / 100 mA  
SELF CUT-OFF TIME : 40 ms < CT < 120 ms  
BCD INPUTS (E) - High level : 3.5 to 5.5V / 800µA at 5V  
- Low level : 0 to 1.5V / 20µA at 0.8V

### MECHANICAL CHARACTERISTICS

CONNECTORS : SMA female per MIL-C 39012  
LIFE : 2.000.000 cycles per position  
SWITCHING TIME (nominal voltage;25° C) : < 40 ms  
CONSTRUCTION : splashproof  
WEIGHT : < 250 g

### ENVIRONMENTAL CHARACTERISTICS

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

(\* : average power at 25° C per RF path)

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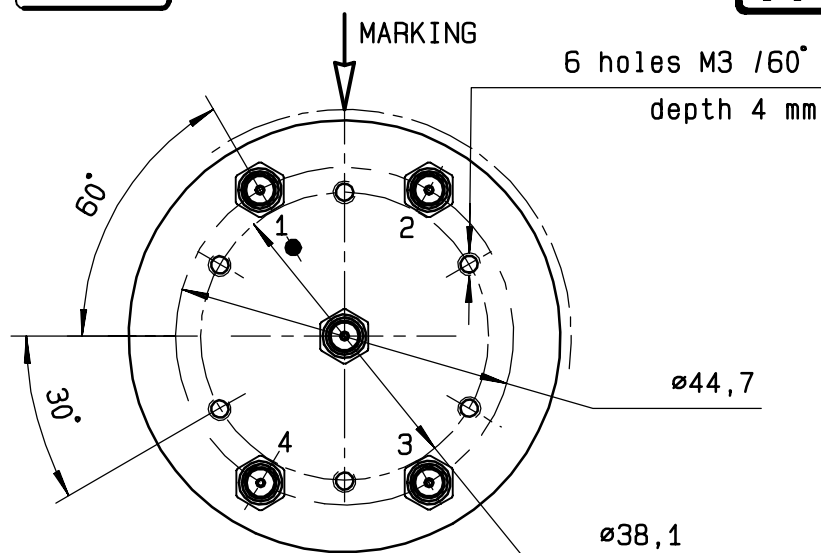
4113-9212

## DRAWING

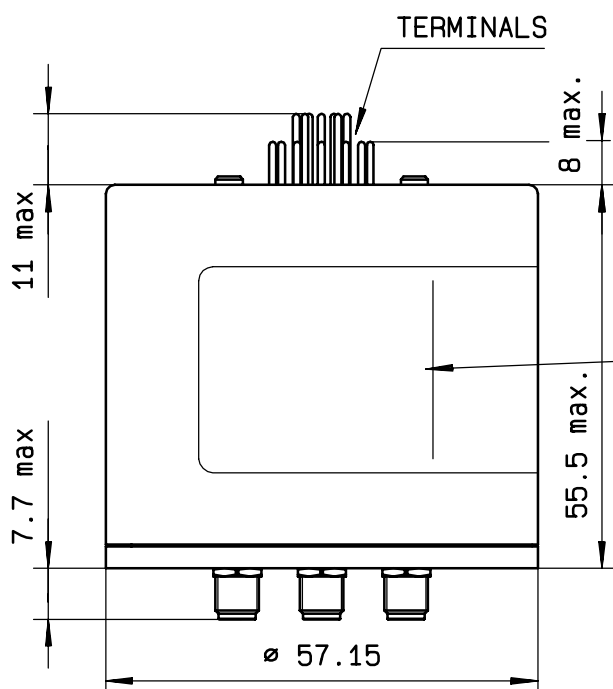
General tolerance:  $\pm 0,5$  mm

# R574 493 480

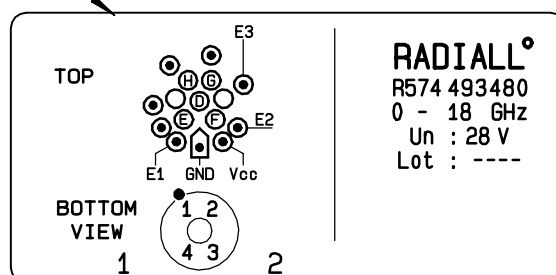
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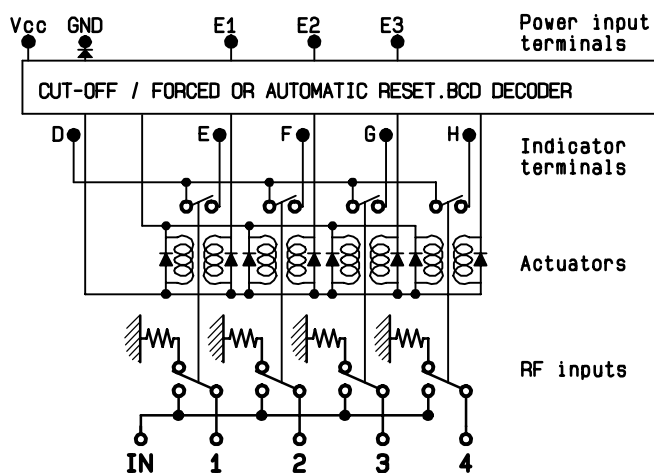
| BCD TRUTH TABLE |    |    |                               |      |
|-----------------|----|----|-------------------------------|------|
| E3              | E2 | E1 | RF continuity                 | Ind. |
| 0               | 0  | 0  | ALL PORTS OPEN (FORCED RESET) | --   |
| 0               | 0  | 1  | IN ↔ 1                        | D.E  |
| 0               | 1  | 0  | IN ↔ 2                        | D.F  |
| 0               | 1  | 1  | IN ↔ 3                        | D.G  |
| 1               | 0  | 0  | IN ↔ 4                        | D.H  |



TOP VIEW (TERMINALS)



## SCHEMATIC DIAGRAM



ISSUE 22. Jan. 08