

4112-9212 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**

Page  
1 / 2

OPTIONS: /SELF CUT-OFF / TTL DRIVE /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%) : 320 mA / RESET : 1280 mA  
ACTUATOR VOLTAGE (Vcc) : 12V (10.2 to 13V) / NEGATIVE COMMON  
TERMINALS : solder pins (250°C max./30 sec.)  
SELF CUT-OFF TIME : 40 ms < CT < 120 ms  
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 : 2.000.000 cycles per position  
SWITCHING TIME (nominal voltage;25° C) : < 15 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)

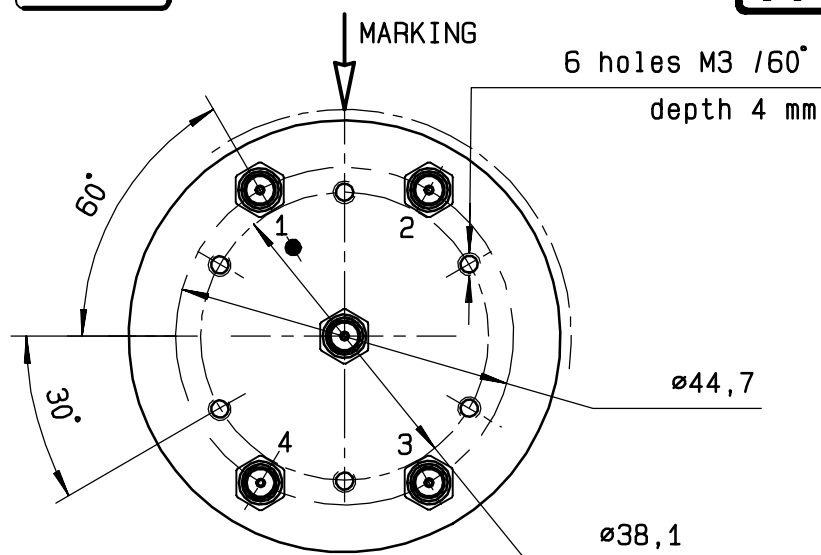
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## DRAWING

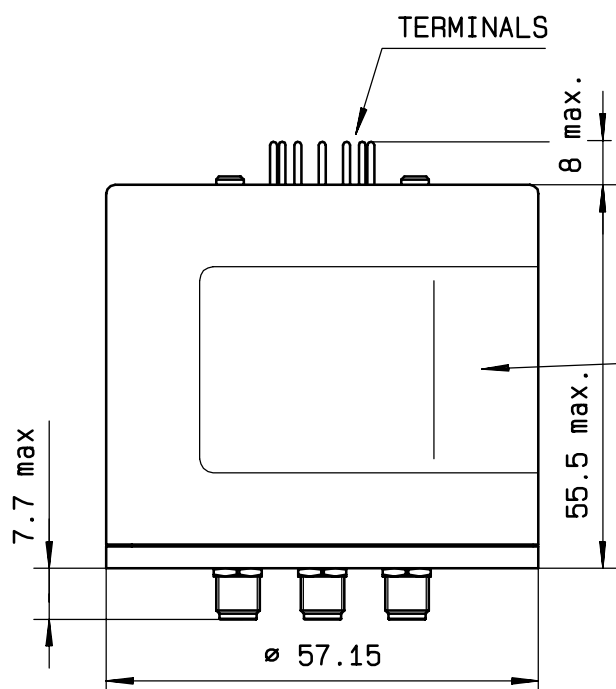
General tolerance:  $\pm 0,5$  mm

# R574 442 420

Page  
2/2

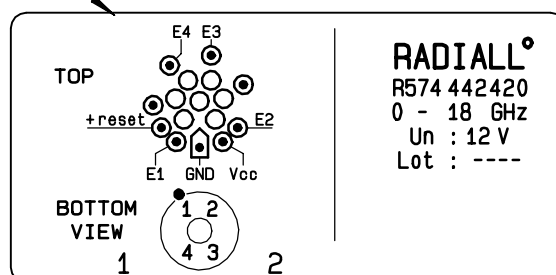


| TTL input | RF continuity          |
|-----------|------------------------|
| RESET = 1 | All ports open         |
| E1 = 1    | IN $\leftrightarrow$ 1 |
| E2 = 1    | IN $\leftrightarrow$ 2 |
| E3 = 1    | IN $\leftrightarrow$ 3 |
| E4 = 1    | IN $\leftrightarrow$ 4 |

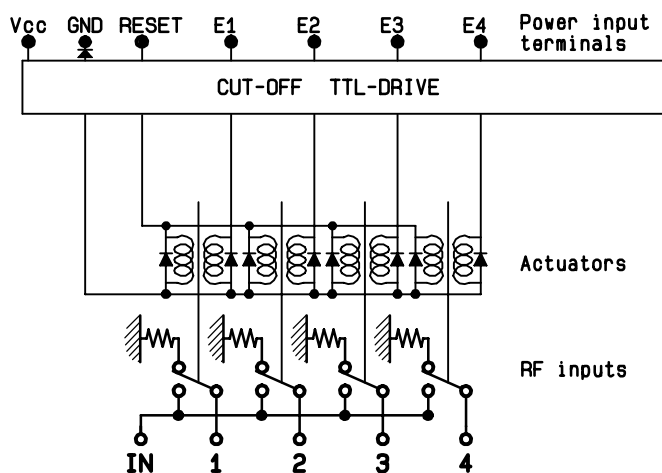


MARKING

TOP VIEW (TERMINALS)



## SCHEMATIC DIAGRAM



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