



18 GHz    SMA    N/O    S.P.7 T. SWITCH

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OPTIONS : /BCD DECODER /SUPP.DIODES

### R F CHARACTERISTICS

NUMBER OF WAYS : 7  
FREQUENCY RANGE : 0 - 18 GHz  
IMPEDANCE : 50 Ohms

| FREQUENCY (GHz) | 0 - 3   | 3 - 8   | 8 -12.4 | 12.4- 16 | 16 - 18 |
|-----------------|---------|---------|---------|----------|---------|
| V.S.W.R    <=   | 1.20    | 1.30    | 1.40    | 1.50     | 1.60    |
| INSERT. LOSS <= | 0.20 dB | 0.30 dB | 0.40 dB | 0.55 dB  | 0.60 dB |
| ISOLATION    >= | 80 dB   | 70 dB   | 60 dB   | 60 dB    | 60 dB   |
| AVER. POWER (*) | 240 W   | 150 W   | 120 W   | 110 W    | 100 W   |

### ELECTRICAL CHARACTERISTICS

ACTUATOR : NORMALLY OPEN  
NOMINAL CURRENT AT 25° C (±10%) : 250 mA  
ACTUATOR VOLTAGE (Vcc) : 12V (10.2 to 13V) / NEGATIVE COMMON  
TERMINALS : 25 pins D-SUB male connector  
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) : < 15 ms  
CONSTRUCTION : splashproof  
WEIGHT : < 280 g

### ENVIRONMENTAL CHARACTERISTICS

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

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

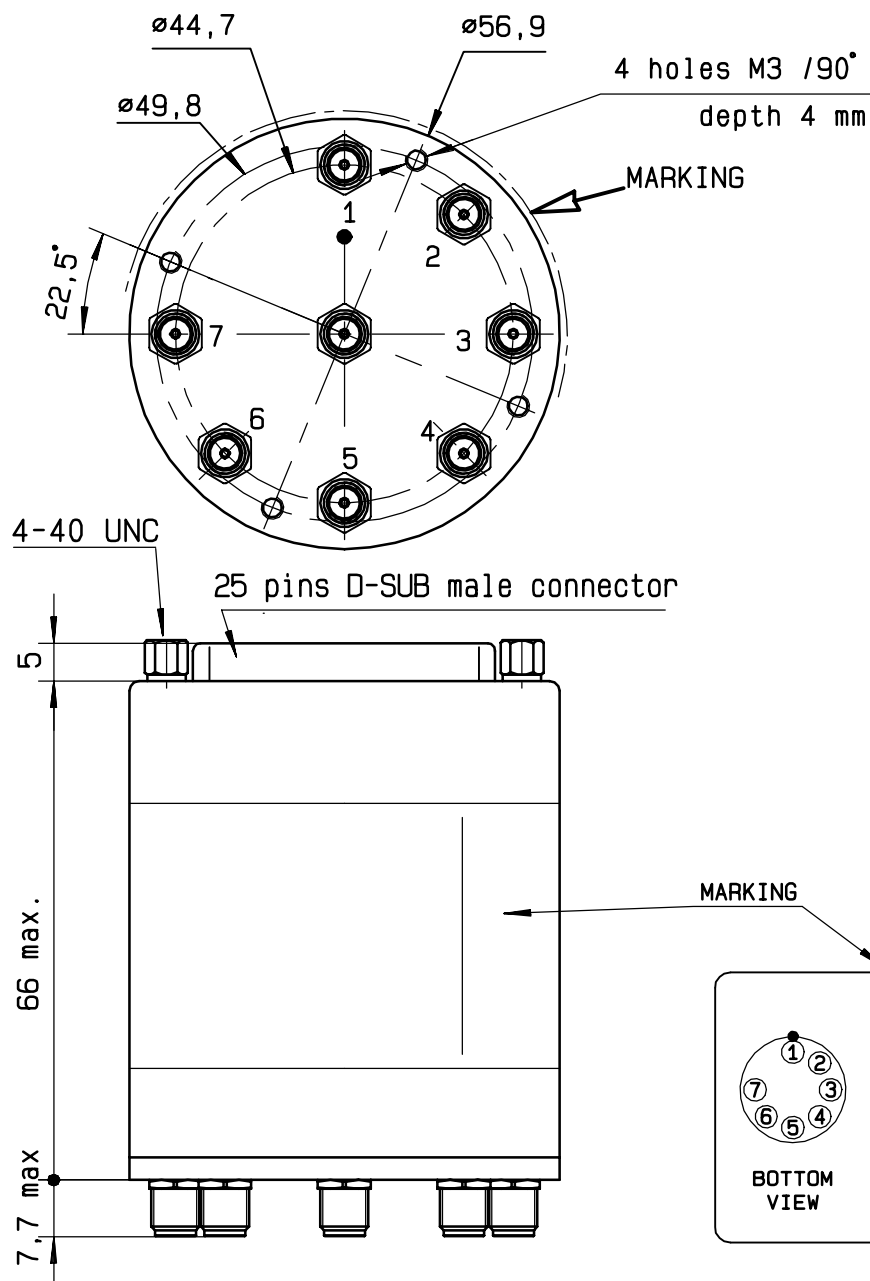
This information is given as an indication. In the continual goal to improve our products, we reserve the right to make any modifications judged necessary

# DRAWING

General tolerance: ± 0,5 mm

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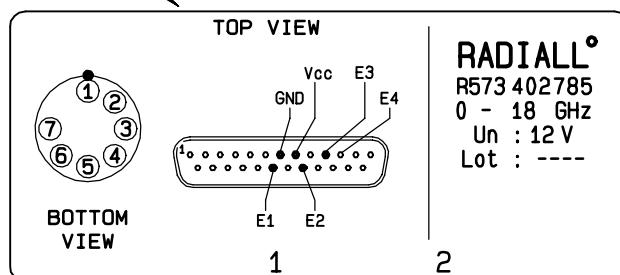


### BCD TRUTH TABLE

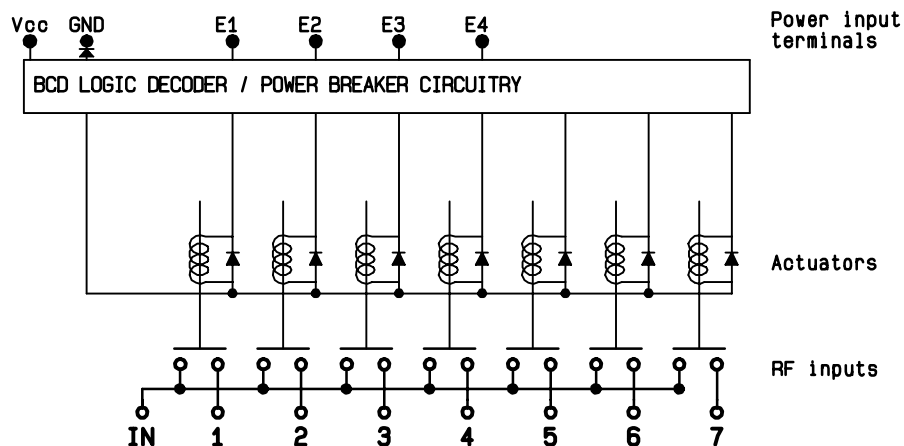
| E4 | E3 | E2 | E1 | RF continuity     |
|----|----|----|----|-------------------|
| 0  | 0  | 0  | 0  | LAST SELECTED POS |
| 1  | 1  | 1  | 1  | ALL PORTS OPEN    |
| 0  | 0  | 0  | 1  | IN ↔ 1            |
| 0  | 0  | 1  | 0  | IN ↔ 2            |
| 0  | 0  | 1  | 1  | IN ↔ 3            |
| 0  | 1  | 0  | 0  | IN ↔ 4            |
| 0  | 1  | 0  | 1  | IN ↔ 5            |
| 0  | 1  | 1  | 0  | IN ↔ 6            |
| 0  | 1  | 1  | 1  | IN ↔ 7            |

MARKING

TOP VIEW (TERMINALS)



## SCHEMATIC DIAGRAM



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