



**12.4 GHz SMA N/O S.P.12T. SWITCH**

OPTIONS : /BCD DECODER /SUPP.DIODES

**R F CHARACTERISTICS**

NUMBER OF WAYS : 12  
 FREQUENCY RANGE : 0 - 12.4 GHz  
 IMPEDANCE : 50 Ohms

|                 |         |         |         |
|-----------------|---------|---------|---------|
| FREQUENCY (GHz) | 0 - 3   | 3 - 8   | 8 -12.4 |
| V.S.W.R <=      | 1.20    | 1.40    | 1.80    |
| INSERT. LOSS <= | 0.20 dB | 0.35 dB | 0.70 dB |
| ISOLATION >=    | 80 dB   | 70 dB   | 60 dB   |
| AVER. POWER (*) | 240 W   | 150 W   | 120 W   |

**ELECTRICAL CHARACTERISTICS**

ACTUATOR : NORMALLY OPEN  
 NOMINAL CURRENT AT 25° C (±10%) : 102 mA  
 ACTUATOR VOLTAGE (Vcc) : 28V (24 to 30V) / NEGATIVE COMMON  
 TERMINALS : 44 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 : < 400 g

**ENVIRONMENTAL CHARACTERISTICS**

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

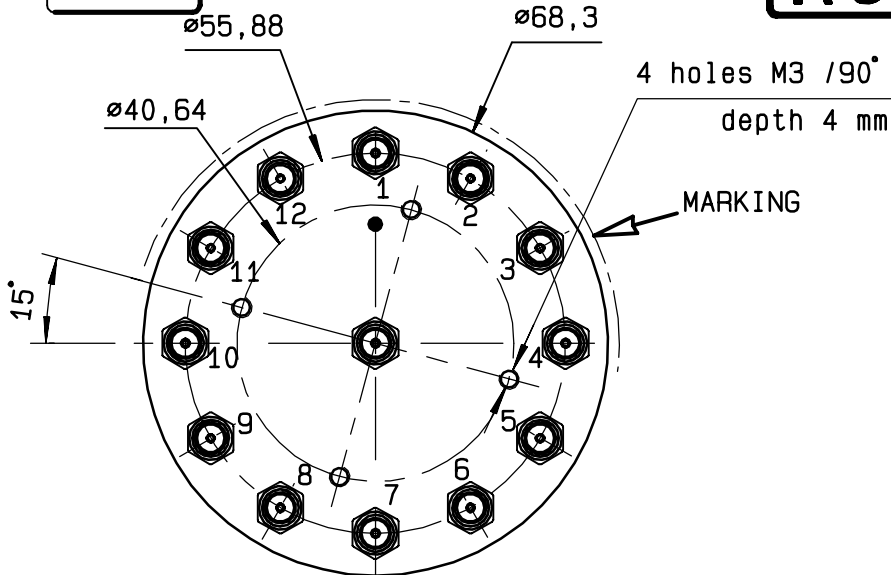
(\* : average power at 25° C per RF path)

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

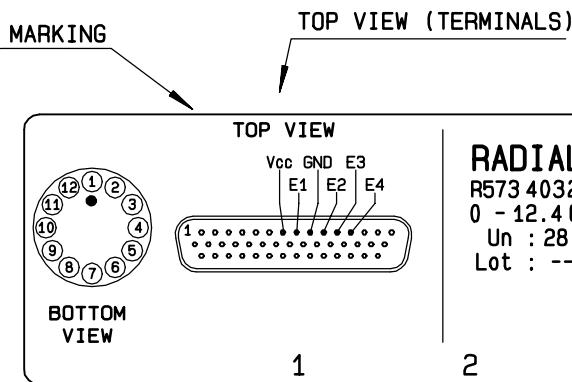
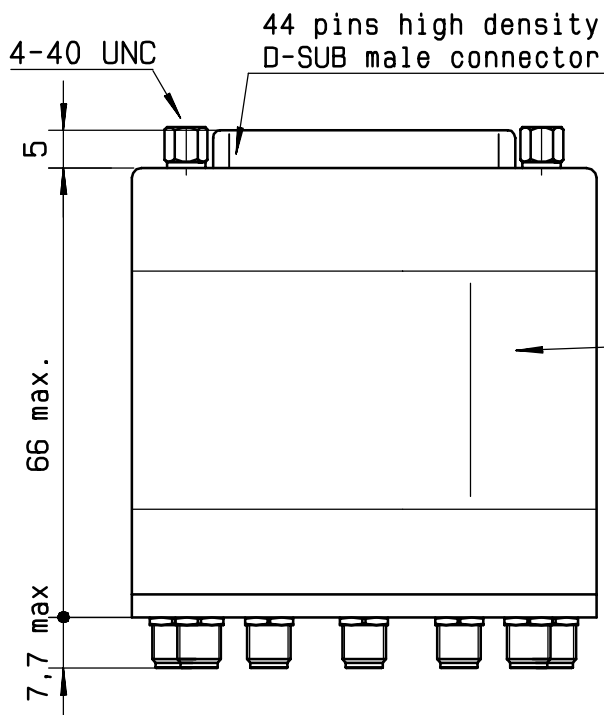
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**DRAWING**

General tolerance: ± 0,5 mm

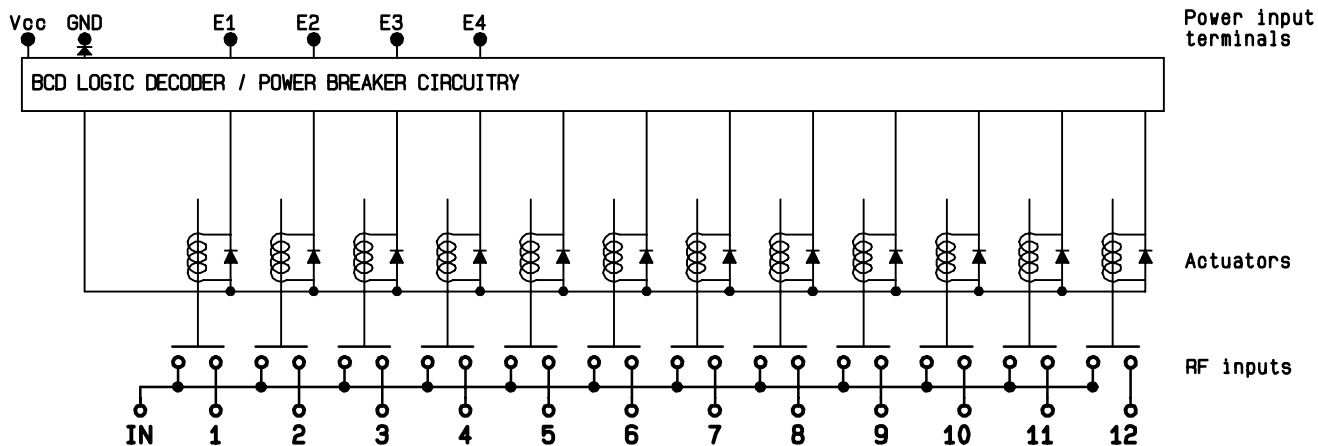


| E4 | E3 | E2 | E1 | RF continuity     |
|----|----|----|----|-------------------|
| 0  | 0  | 0  | 0  | LAST SELECTED POS |
| 1  | 1  | 1  | 1  | ALL PORTS OPEN    |
| 0  | 0  | 0  | 1  | IN ↔ 1            |
| 0  | 0  | 1  | 0  | IN ↔ 2            |
| 0  | 0  | 1  | 1  | IN ↔ 3            |
| 0  | 1  | 0  | 0  | IN ↔ 4            |
| 0  | 1  | 0  | 1  | IN ↔ 5            |
| 0  | 1  | 1  | 0  | IN ↔ 6            |
| 0  | 1  | 1  | 1  | IN ↔ 7            |
| 1  | 0  | 0  | 0  | IN ↔ 8            |
| 1  | 0  | 0  | 1  | IN ↔ 9            |
| 1  | 0  | 1  | 0  | IN ↔ 10           |
| 1  | 0  | 1  | 1  | IN ↔ 11           |
| 1  | 1  | 0  | 0  | IN ↔ 12           |



**RADIALL<sup>o</sup>**  
 R573 403285  
 0 - 12.4 GHz  
 Un : 28 V  
 Lot : ----

**SCHEMATIC DIAGRAM**



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