



**18 GHz SMA LATCHING S.P.10T. SWITCH**

OPTIONS : INDICATOR /SELF CUT-OFF /AUTO RESET / TTL DRIVE /SUPP.DIODES

**R F CHARACTERISTICS**

NUMBER OF WAYS : 10  
 FREQUENCY RANGE : 0 - 18 GHz  
 IMPEDANCE : 50 Ohms

|                 |         |         |         |           |          |
|-----------------|---------|---------|---------|-----------|----------|
| FREQUENCY (GHz) | 0 - 3   | 3 - 8   | 8 -12.4 | 12.4-15.5 | 15.5- 18 |
| V.S.W.R <=      | 1.20    | 1.30    | 1.40    | 1.50      | 1.70     |
| INSERT. LOSS <= | 0.20 dB | 0.30 dB | 0.40 dB | 0.50 dB   | 0.70 dB  |
| ISOLATION >=    | 80 dB   | 70 dB   | 60 dB   | 60 dB     | 55 dB    |
| AVER. POWER (*) | 240 W   | 150 W   | 120 W   | 110 W     | 100 W    |

**ELECTRICAL CHARACTERISTICS**

ACTUATOR : LATCHING  
 NOMINAL CURRENT AT 25° C (±10%) : 500 mA  
 ACTUATOR VOLTAGE (Vcc) : 28V (24 to 30V) / NEGATIVE COMMON  
 TERMINALS : solder pins (250 deg.C max./30 sec.)  
 INDICATOR RATING : 1 W / 30 V / 100 mA  
 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) : < 50 ms  
 CONSTRUCTION : splashproof  
 WEIGHT : < 360 g

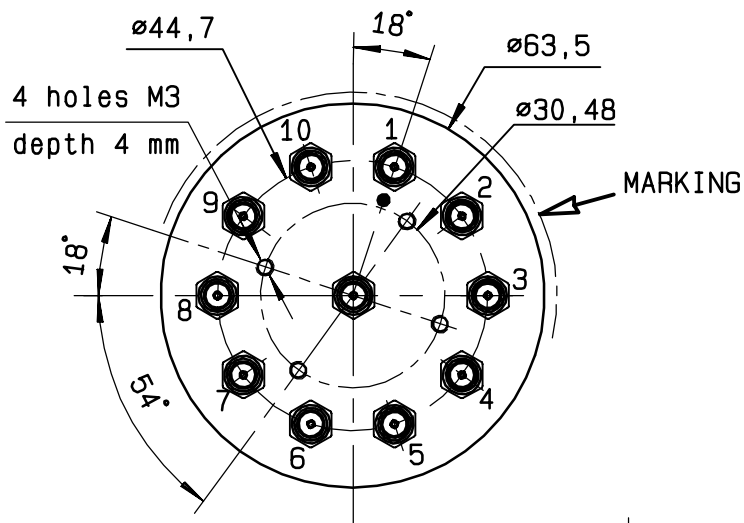
**ENVIRONMENTAL CHARACTERISTICS**

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

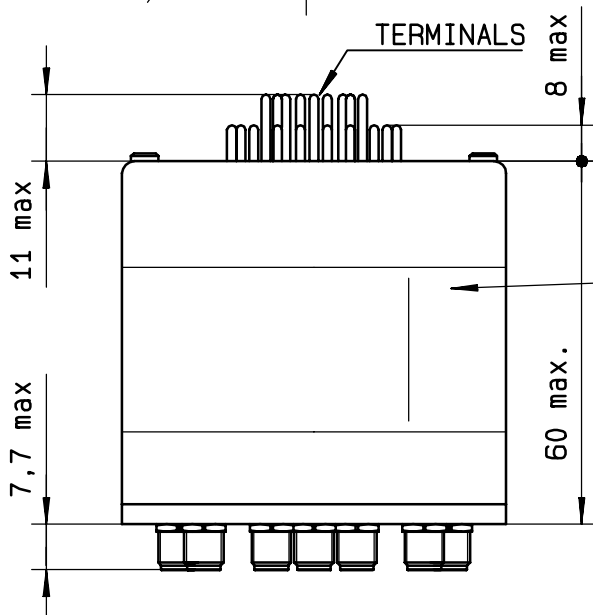
(\* : average power at 25° C per RF path)

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

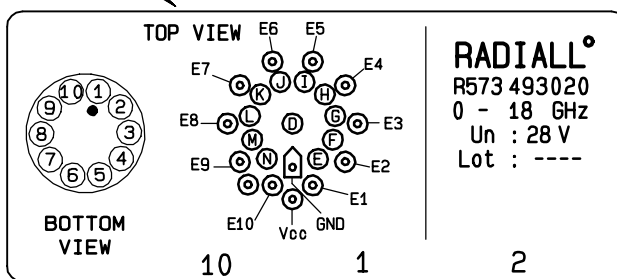
4112-9212



| TTL input | RF continuity | Ind. |
|-----------|---------------|------|
| E1 = 1    | IN ↔ 1        | D.E  |
| E2 = 1    | IN ↔ 2        | D.F  |
| E3 = 1    | IN ↔ 3        | D.G  |
| E4 = 1    | IN ↔ 4        | D.H  |
| E5 = 1    | IN ↔ 5        | D.I  |
| E6 = 1    | IN ↔ 6        | D.J  |
| E7 = 1    | IN ↔ 7        | D.K  |
| E8 = 1    | IN ↔ 8        | D.L  |
| E9 = 1    | IN ↔ 9        | D.M  |
| E10 = 1   | IN ↔ 10       | D.N  |

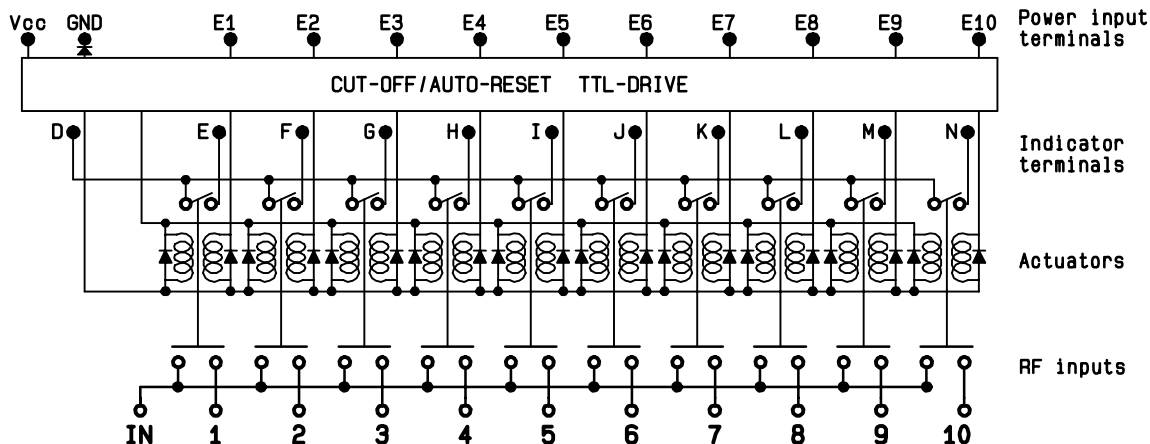


MARKING TOP VIEW (TERMINALS)



**RADIALL**  
 R573 493020  
 0 - 18 GHz  
 Un : 28 V  
 Lot : ----

**SCHEMATIC DIAGRAM**



4113-9212 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