



**40 GHz SMA-2.9 LATCHING S.P.D.T. SWITCH**

OPTIONS : INDICATOR /SELF CUT-OFF

**R F CHARACTERISTICS**

FREQUENCY RANGE : 0 - 40 GHz  
 IMPEDANCE : 50 Ohms

| FREQUENCY (GHz) | 0 - 6   | 6 -12.4 | 12.4- 18 | 18 -26.5 | 26.5- 40 |
|-----------------|---------|---------|----------|----------|----------|
| V.S.W.R <=      | 1.30    | 1.40    | 1.50     | 1.70     | 1.90     |
| INSERT. LOSS <= | 0.30 dB | 0.40 dB | 0.50 dB  | 0.70 dB  | 0.80 dB  |
| ISOLATION >=    | 70 dB   | 60 dB   | 60 dB    | 55 dB    | 50 dB    |
| AVER. POWER (*) | 80 W    | 60 W    | 50 W     | 20 W     | 10 W     |

SWITCH REPEATABILITY : 0.03 dB peak change in insertion loss over 100 cycles

**ELECTRICAL CHARACTERISTICS**

ACTUATOR : LATCHING  
 NOMINAL CURRENT AT 25° C (±10%) : 80 mA  
 ACTUATOR VOLTAGE (Vcc) : 28V (24 to 30V) / POSITIVE 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

**MECHANICAL CHARACTERISTICS**

CONNECTORS : SMA 2.9fem. per MIL C 39012  
 LIFE : 10.000.000 cycles  
 SWITCHING TIME (nominal voltage;25° C) : < 10 ms  
 CONSTRUCTION : vaccum compatible  
 WEIGHT : < 45 g

**ENVIRONMENTAL CHARACTERISTICS**

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

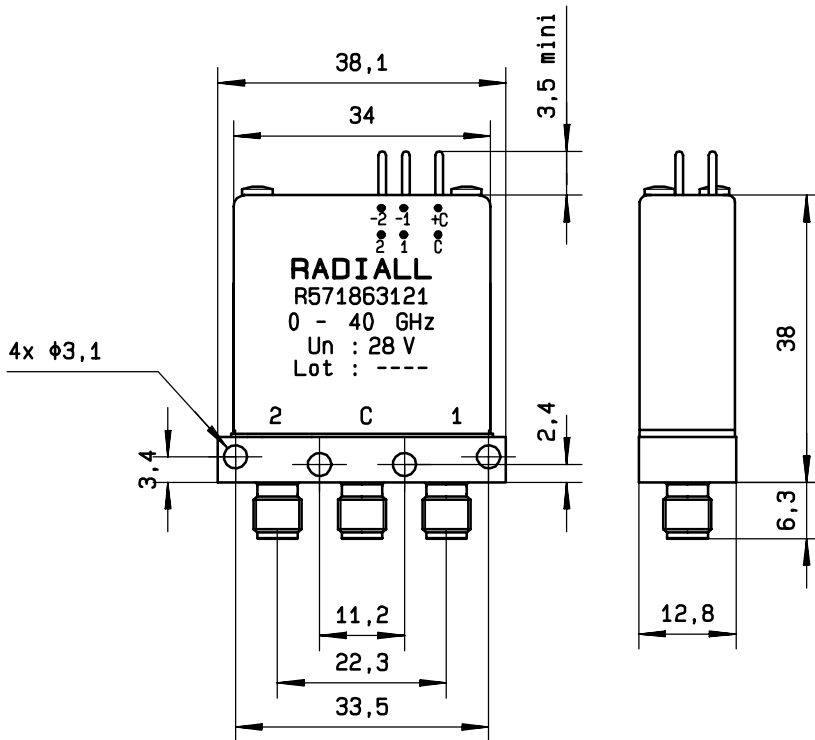
(\* : average power at 25° C)

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

|                |  |           |  |       |
|----------------|--|-----------|--|-------|
| CREATION       |  |           |  |       |
| N° :           |  |           |  |       |
| PEN/EP:        |  |           |  |       |
| Name:LJ        |  |           |  |       |
| Date:23.SEP.09 |  |           |  |       |
| APP.:PG        |  |           |  |       |
| ISSUE          |  | REVISIONS |  | APPR. |

**DRAWING**



General tolerance:  $\pm 0,5$  mm

**SCHEMATIC DIAGRAM**

| Voltage | RF continuity         | Indicator |
|---------|-----------------------|-----------|
| + C - 1 | C $\leftrightarrow$ 1 | C . 1     |
| + C - 2 | C $\leftrightarrow$ 2 | C . 2     |

