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ISSUE 25-11-22

SERIE : SPnT

PART NUMBER : R574F93080

## RF CHARACTERISTICS

Number of ways : 10  
Frequency range : 0 - 22 GHz  
Impedance : 50 Ohms

| Frequency (GHz)    | DC - 3  | 3 - 8   | 8 - 12.4 | 12.4 - 15.5 | 15.5 - 18 | 18 - 22 |
|--------------------|---------|---------|----------|-------------|-----------|---------|
| VSWR max           | 1,20    | 1,30    | 1,40     | 1,50        | 1,70      | 1,80    |
| Insertion loss max | 0.20 dB | 0.30 dB | 0.40 dB  | 0.50 dB     | 0.70 dB   | 0.80 dB |
| Isolation min      | 80 dB   | 70 dB   | 60 dB    | 60 dB       | 55 dB     | 55 dB   |
| Average power (*)  | 240 W   | 150 W   | 120 W    | 110 W       | 100 W     | 90 W    |

TERMINATION IMPEDANCE : 50 Ohms  
TERM. AVG. POWER AT 25° C : 1 W per termination / 3 W total power

## ELECTRICAL CHARACTERISTICS

Actuator : LATCHING  
Nominal current \*\* : 500 mA  
Actuator voltage (Vcc) : 28V (24 to 30V)  
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  
BCD inputs (E) - High level : 3.5 to 5.5 V / 800µA at 5.5 V  
- Low level : 0 to 1.5 V / 20µA at 0.8 V

## MECHANICAL CHARACTERISTICS

Connectors : SMA female per MIL-C 39012  
Life : 2 million cycles per position  
Switching Time\*\*\* : < 50 ms  
Construction : Splashproof  
Weight : < 360 g

## ENVIRONMENTAL CHARACTERISTICS

Operating temperature range : -40°C to +85°C  
Storage temperature range : -55°C to +85°C

(\* Average power at 25°C per RF Path)  
(\*\* At 25° C ±10%)  
(\*\*\* Nominal voltage ; 25° C)



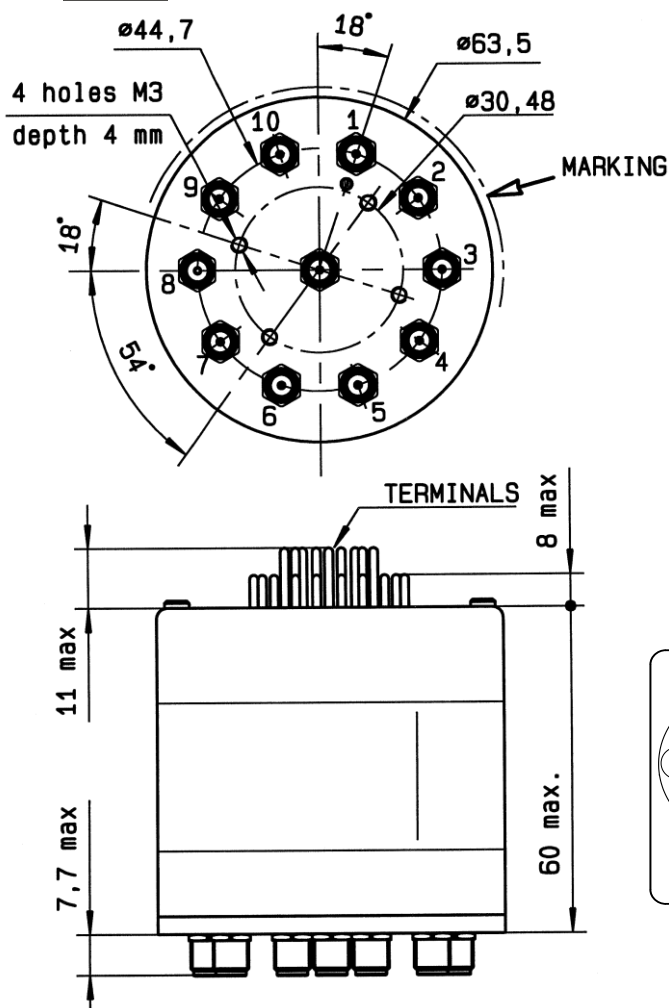
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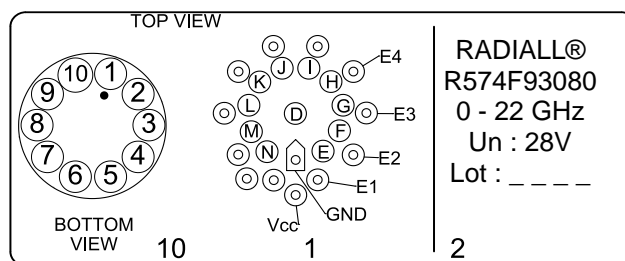
DRAWING



BCD TRUTH TABLE

| E4 | E3 | E2 | E1 | RF continuity                 | Ind. |
|----|----|----|----|-------------------------------|------|
| 0  | 0  | 0  | 0  | All ports open (Forced Reset) | --   |
| 0  | 0  | 0  | 1  | IN ↔ 1                        | D.E  |
| 0  | 0  | 1  | 0  | IN ↔ 2                        | D.F  |
| 0  | 0  | 1  | 1  | IN ↔ 3                        | D.G  |
| 0  | 1  | 0  | 0  | IN ↔ 4                        | D.H  |
| 0  | 1  | 0  | 1  | IN ↔ 5                        | D.I  |
| 0  | 1  | 1  | 0  | IN ↔ 6                        | D.J  |
| 0  | 1  | 1  | 1  | IN ↔ 7                        | D.K  |
| 1  | 0  | 0  | 0  | IN ↔ 8                        | D.L  |
| 1  | 0  | 0  | 1  | IN ↔ 9                        | D.M  |
| 1  | 0  | 1  | 0  | IN ↔ 10                       | D.N  |

LABEL



General tolerances : ±0,5 mm [0,02 in]

SCHEMATIC DIAGRAM

