RF CHARACTERISTICS

| | |
|---|---|
| Number of ways | : **8** |
| Frequency range | : **0 - 3 GHz** |
| Impedance | : **50 Ohms** |

| Frequency (GHz) | **DC - 3** |
|---|---|
| VSWR max | **1.20** |
| Insertion loss max | **0.20 dB** |
| Isolation min | **80 dB** |
| Average power (*) | **240 W** |

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

ELECTRICAL CHARACTERISTICS

| | | |
|---|---|---|
| Actuator | | : **NORMALLY OPEN** |
| Nominal current ** | | : **250 mA** |
| Actuator voltage (Vcc) | | : **12V (10.2 to 13V)** |
| Terminals | | : **25 pins D-SUB male connector** |
| 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*** | : **< 15 ms** |
| Construction | : **Splashproof** |
| Weight | : **< 280 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)
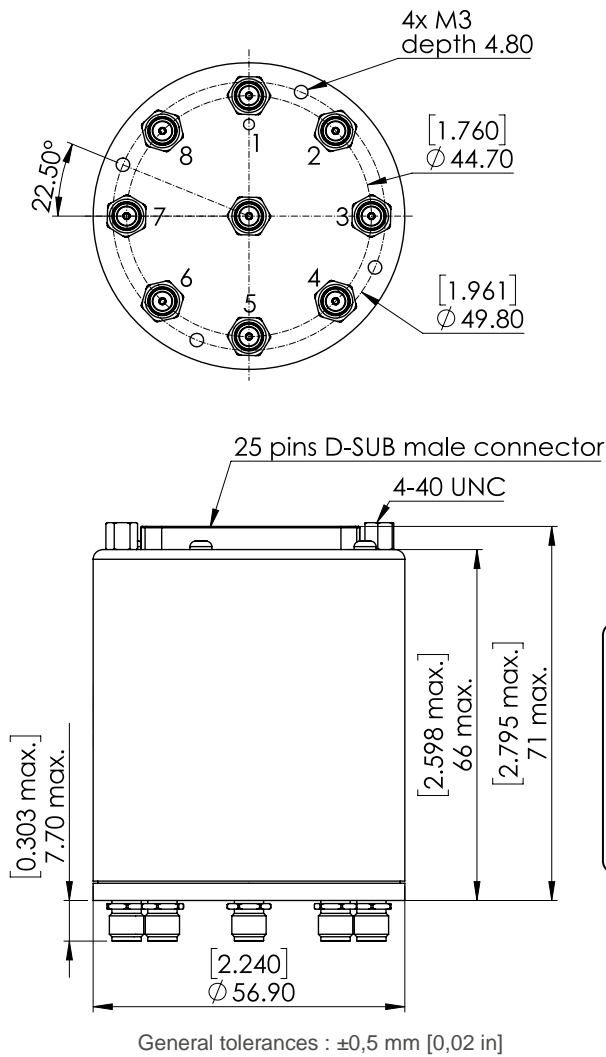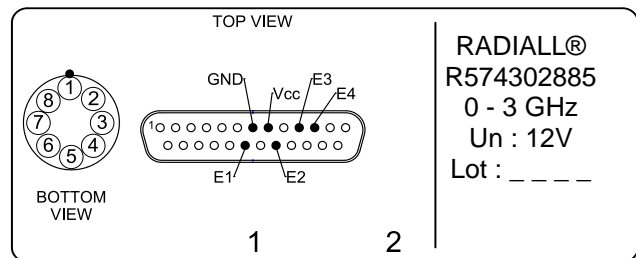(**    At 25° C ±10%)
(***    Nominal voltage ; 25° C)


RoHS COMPLIANT

DRAWING

4x M3
depth 4.80

22.50°

[1.760]
⌀ 44.70

[1.961]
⌀ 49.80

| BCD TRUTH TABLE | | | | |
|---|---|---|---|---|
| E4 | E3 | E2 | E1 | RF continuity |
| 0 | 0 | 0 | 0 | Last Position |
| 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 |

25 pins D-SUB male connector

4-40 UNC

[2.598 max.] 66 max.

[2.795 max.] 71 max.

[0.303 max.] 7.70 max.

[2.240] ⌀ 56.90

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

LABEL

TOP VIEW

GND   Vcc   E3   E4

E1   E2

BOTTOM VIEW

1        2

RADIALL®
R574302885
0 - 3 GHz
Un : 12V
Lot : _ _ _ _

SCHEMATIC DIAGRAM

Vcc   RTN      E1      E2      E3      E4    Power input terminals

BCD DECODER AND TTL LOGIC / POWER BREAKER CIRCUITRY

Actuators

IN    1    2         n    RF inputs