RF CHARACTERISTICS

Frequency range   : **0 - 12.4 GHz**
Impedance   : **50 Ohms**

Frequency (GHz)	**DC - 1**	**1 - 2**	**2 - 3**	**3 - 8**	**8 - 12.4**
VSWR max	**1.15**	**1.20**	**1.25**	**1.35**	**1.50**
Insertion loss max	**0.15 dB**	**0.20 dB**	**0.25 dB**	**0.35 dB**	**0.50 dB**
Isolation min	**85 dB**	**80 dB**	**75 dB**	**70 dB**	**60 dB**
Average power (*)	**700 W**	**500 W**	**400 W**	**250 W**	**200 W**

Passive intermodulation	
Tone 1	1810 MHz, approximately 43 dBm
Tone 2	1850 MHz, approximately 43 dBm
3rd order PIM	- 160 dBc at 1770 MHz

Depending on application, carrier powers and frequencies, PIM measurements can vary.

PIM testing is not measured during product acceptance test.

ELECTRICAL CHARACTERISTICS

Actuator   : **FAILSAFE**
Nominal current **   : **140 mA**
Actuator voltage (Vcc)   : **28V (24 to 30V)**
Terminals   : **9 pins D-SUB male connector**
Indicator rating   : **1 W / 30 V / 100 mA**
TTL inputs (E)   - High level : **2.2 to 5.5 V / 800µA at 5.5 V**
                  - Low level   : **0 to 0.8 V / 20µA at 0.8 V**

MECHANICAL CHARACTERISTICS

Connectors*****   : **N female per MIL-C 39012**
Life   : **2 million cycles**
Switching Time***   : **< 15 ms**
Construction   : **Splashproof**
Weight   : **< 215 g**

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range   : **-25°C to +70°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)
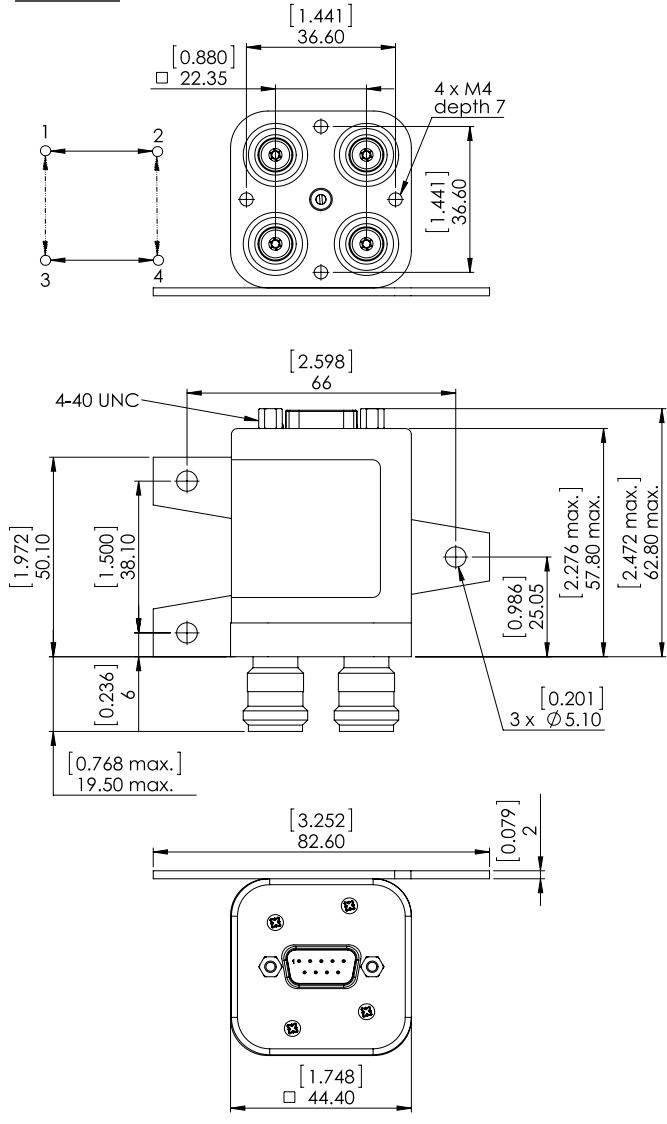(***** Recommended mating torque: 300 N.cm)

DRAWING

LABEL

```
D-SUB 9 PINS
TOP VIEW

    E        GND  Vcc

   1  2   3  4  5
    6  7  8  9

  1 / 2 / C
```

RADIALL®
R577123105LP
0 - 12.4 GHz
Un : 28V
Lot : _ _ _ _

General tolerances : ±0,5 mm [0,02 in]
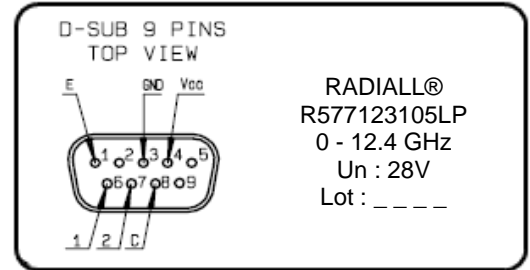
SCHEMATIC DIAGRAM
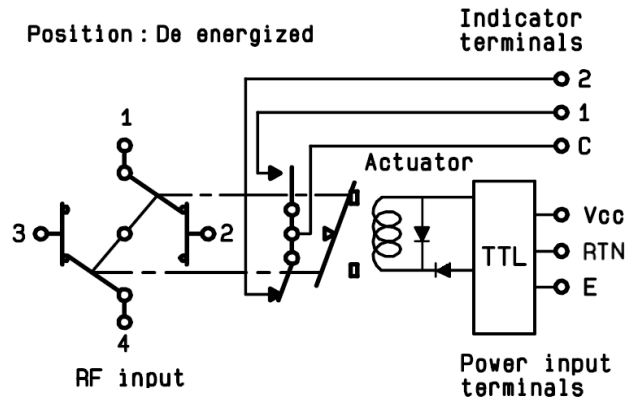
TTL input	RF Continuity	Ind.
E = 1	1 ↔ 3 / 2 ↔ 4	C.1
E = 0	1 ↔ 2 / 3 ↔ 4	C.2