RF CHARACTERISTICS

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

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40	40 - 50
VSWR max	1.30	1.40	1.50	1.70	1.90	2.00
Insertion loss max	0.30 dB	0.40 dB	0.50 dB	0.70 dB	0.80 dB	1.10 dB
Isolation min	70 dB	60 dB	60 dB	55 dB	50 dB	50 dB
Average power (*)	80 W	60 W	50 W	20 W	10 W	5 W

ELECTRICAL CHARACTERISTICS

Actuator	:	**LATCHING**
Nominal current **	:	**125 mA**
Actuator voltage (Vcc)	:	**28V (24 to 30V)**
Terminals	:	**9 pins D-SUB male connector**
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 5.5 V / 800µA at 5.5 V**
- Low level	:	**0 to 0.8 V / 20µA at 0.8 V**

MECHANICAL CHARACTERISTICS

Connectors   : **2.4mm female (Accoding to IEEE STD 287)**
Life   : **2 million cycles**
Switching Time***   : **< 15 ms**
Construction   : **Splashproof**
Weight   : **< 100 g**

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range   : **-25°C to +70°C**
Storage temperature range   : **-40°C to +85°C**

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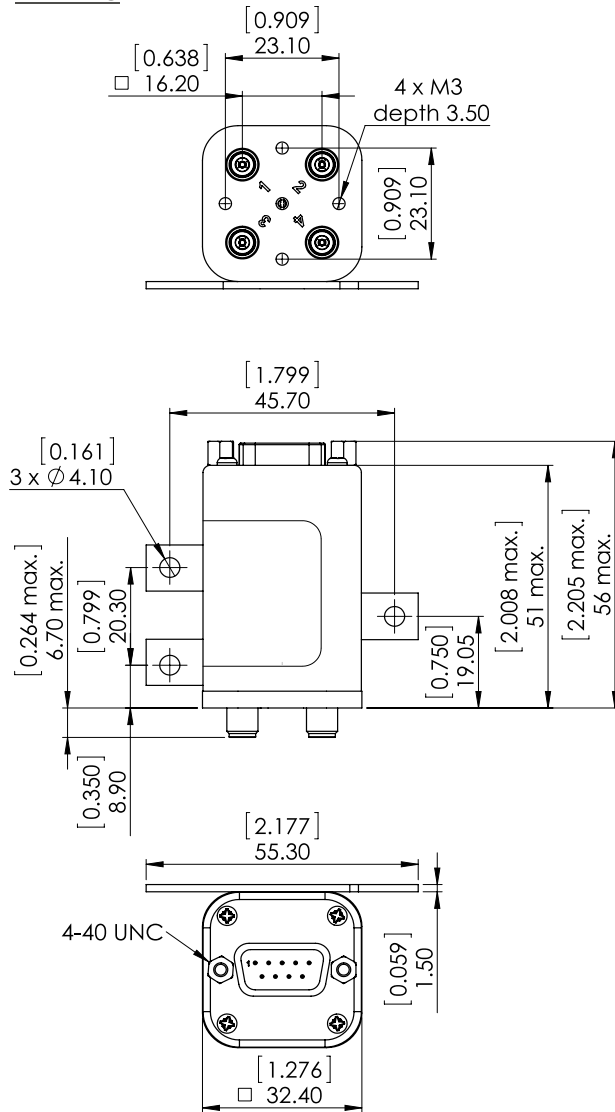(**   At 25° C ±10%)
(***   Nominal voltage ; 25° C)

RoHS COMPLIANT

DRAWING

[0.909]
23.10

[0.638]
□ 16.20

4 x M3
depth 3.50

[0.909]
23.10

1   2

3   4

[1.799]
45.70

[0.161]
3 x Ø 4.10

[0.264 max.]
6.70 max.

[0.799]
20.30

[0.350]
8.90

[2.008 max.]
51 max.

[2.205 max.]
56 max.

[0.750]
19.05

[2.177]
55.30

4-40 UNC

[0.059]
1.50

[1.276]
□ 32.40

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

LABEL

D - SUB 9 PINS
TOP VIEW

E1   E2   GND   Vcc

1

1 / 2   C

RADIALL®
R577J63105
0 - 50 GHz
Un : 28V
Lot : _ _ _ _

WARNING
Sensitive connector : To avoid irreversible damage
during any connexions, ensure that the center
contact is aligned with the female socket

SCHEMATIC DIAGRAM

Indicator
terminals

2
1
C

1

Actuator

3   2

CUT
OFF
TTL

Vcc
RTN
E1
E2

4

RF input

Power input
terminals
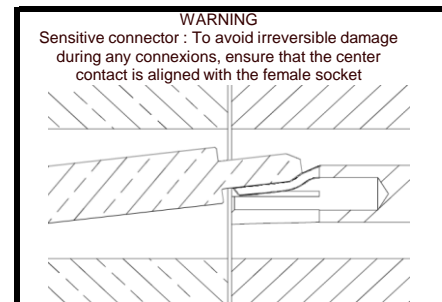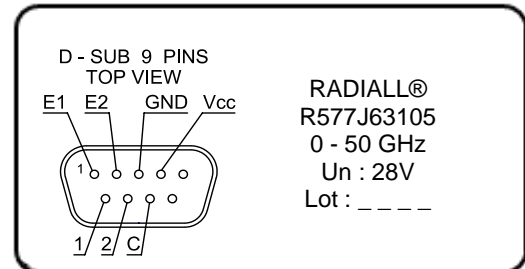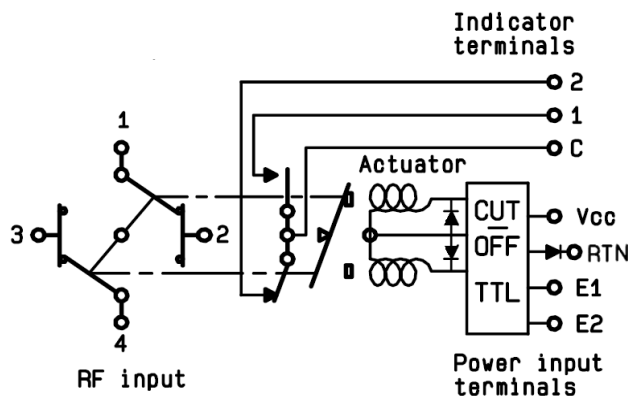
TTL input	RF Continuity	Ind.
E1=1 / E2=0	1 ↔ 3 / 2 ↔ 4	C.1
E1=0 / E2=1	1 ↔ 2 / 3 ↔ 4	C.2
E1=0 / E2=0	Memory	-
E1=1 / E2=1	Forbidden	-