RF CHARACTERISTICS

Number of ways	: **6**				
Frequency range	: **0 - 40 GHz**				
Impedance	: **50 Ohms**				

Frequency (GHz)	DC - 6	6 - 12.4	12.4 - 18	18 - 26.5	26.5 - 40
VSWR max	1.20	1.35	1.45	1.70	1.90
Insertion loss max (dB)	0.3 + 0.015 x frequency (GHz)				
Isolation min	100 dB	90 dB	80 dB	70 dB	60 dB
Average power (*)	40 W	30 W	25 W	15 W	5 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 **   : **420 mA**
Actuator voltage (Vcc)   : **5V / NEGATIVE COMMON**
Terminals   : **Mini-USB socket (with 1 meter USB cable)**

MECHANICAL CHARACTERISTICS

Connectors   : **SMA 2.9 female per MIL-C 39012**
Life   : **2 million cycles per position**
Switching Time***   : **< 15 ms**
Construction   : **Splashproof**
Weight   : **< 250 g**

ENVIRONMENTAL CHARACTERISTICS

Operating temperature range   : **-25°C to +75°C**
Storage temperature range   : **-55°C to +85°C**

SYSTEM REQUIREMENTS

Compatible with Windows® 7 up to 10 operating systems using 32 and 64 bit architecture

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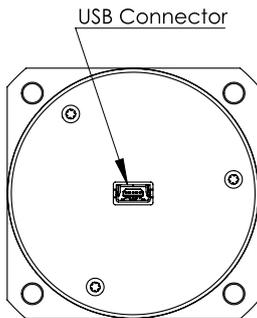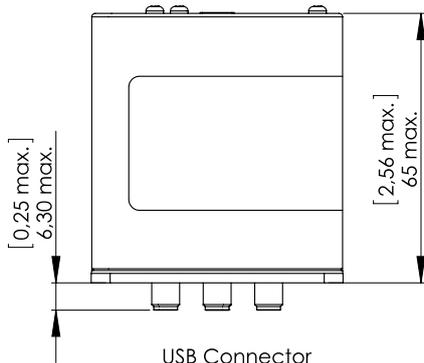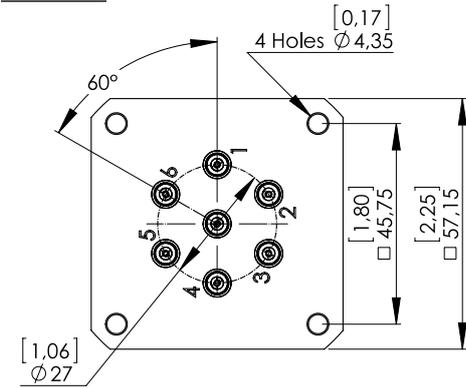(**   At 25° C ±10%)
(*** Nominal voltage ; 25° C)

RoHS COMPLIANT

<u>DRAWING</u>

[0,17]
4 Holes ⌀ 4,35

60°

[1,80]
☐ 45,75

[2,25]
☐ 57,15

[1,06]
⌀ 27

[2,56 max.]
65 max.

[0,25 max.]
6,30 max.

USB Connector

General tolerances : ±0.5 mm [0.02 in]

Graphical User Interface

<- Board Selection

Radiall

www.Radiall.com

Serial Number

Switch ID

RF Paths

Reset

RF Path 1   RF Path 4

RF Path 2   RF Path 5

RF Path 3   RF Path 6

Indicator contacts position

☐ Position 1   ☐ Position 4

☐ Position 2   ☐ Position 5

☐ Position 3   ☐ Position 6
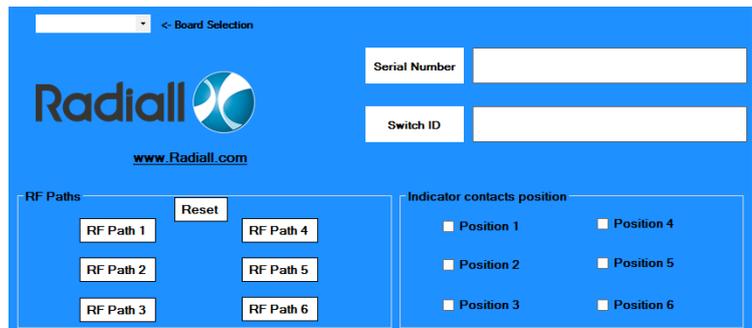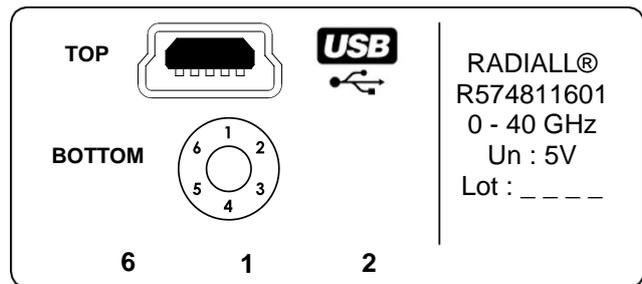
Apart from using the provided GUI interface USB switch can be also controlled via other commonly used software programming platforms such as Visual Basic, C#, C++, LabVIEW™ and VEE.

LABEL

TOP

BOTTOM

1
6   2
5   3
4

6   1   2

RADIALL®
R574811601
0 - 40 GHz
Un : 5V
Lot : _ _ _ _

<u>SCHEMATIC DIAGRAM</u>

5Vdc   D-   D+   GND   Power input terminals

USB-DRIVE

Indicator terminals

Actuators

IN   1   2   n   RF inputs