- Key Features -

➢ **Front Panel OLED Display**

➢ **63 dB Range, 0.5dB Steps**

➢ **100MHz to 12GHz**

➢ **Standalone Operation, no PC needed**

➢ **Can be used as programmable attenuator using USB port/PC**

➢ **Tiny all-aluminum case**

➢ **Micro USB Powered**

➢ **Unquestionably Reliable**

DS Instruments

DAT64H

63 dB Programmable Ultra-wideband RF Attenuator with OLED Display and User Interface

DAT64H, A Programmable Attenuator with User Interface

The DAT64H is a fully self contained attenuator instrument. The attenuation range is 0 to 63 dB with 0.5dB step size. Control of attenuator setting can be accomplished both by the user interface and via computer using the USB port.

The user interface has UP/ DOWN buttons and an OLED type display. The display indicates the current attenuation value as well as other instrument information.

Ease of Use

The user can control the DAT64H attenuation both from front panel buttons or remotely and from the USB port. *No PC is needed to operate the DAT64H as step attenuator*.

Remote Operation

Industry standard SCPI commands allow the DAT64H to be controlled by any PC with a USB interface.

The micro USB port is configured as a COM port. This allows third party software to access the DAT64H as if it were a standard COM device with no additional drivers, software, or API.

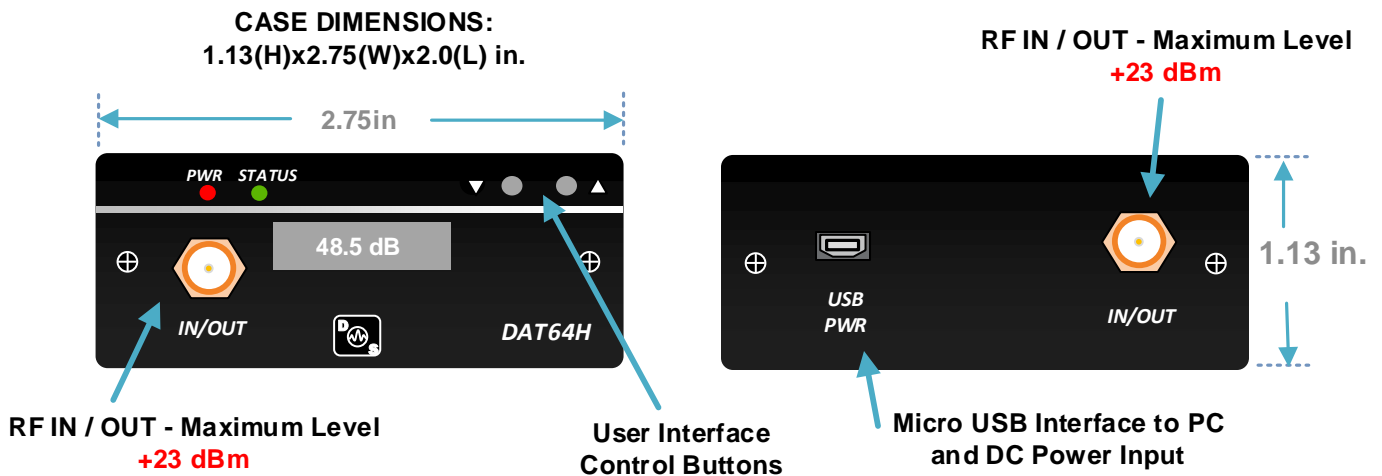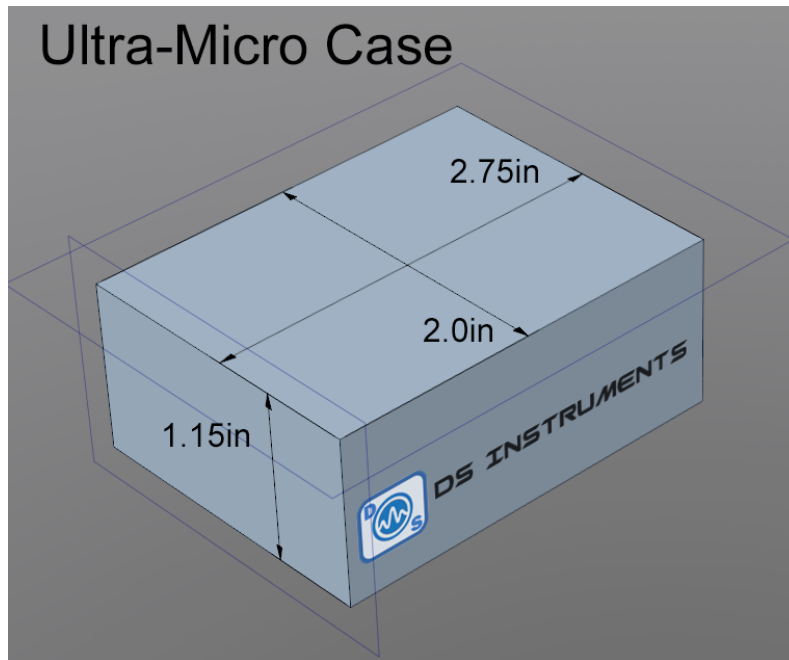All power required by the device is supplied by the USB connection.

DAT64H

SPECIFICATIONS

Parameter	Min	Max	**Typ**	Units
DAT64H Frequency Range	100	12000		MHz
Insertion Loss, 100 to 2000MHz	5	7	**6**	dB
Insertion Loss, 2 to 6GHz	6	9	**7**	dB
Insertion Loss, 6 to 10GHz	7	14	**10**	dB
Insertion Loss, 10 to 12GHz	11	15	**12**	dB
In/ Out VSWR	1.25:1	1.6:1	**1.35:1**	-
Attenuation Range	0	63.0		dB
Min Step Size	0.5			dB
Step Size Error		+/- 0.4		dB
Maximum Input Power		+23		dBm
Third Order Intercept		+38		dBm
Atten. Accuracy,All Atten. States (Referenced to Insertion Loss)	± (0.30 + 5% of Atten. Setting) Max			dB
DC Power Input thru USB Port	4.75	5.2	**5.0**	vdc

DAT64H Front and Rear Panel Features

CASE DIMENSIONS:
1.13(H)x2.75(W)x2.0(L) in.

RF IN / OUT - Maximum Level
+23 dBm

2.75in

PWR   STATUS   ▼ ● ● ▲

48.5 dB

IN/OUT   DAT64H

USB PWR   IN/OUT

1.13 in.

RF IN / OUT - Maximum Level
+23 dBm

User Interface Control Buttons

Micro USB Interface to PC and DC Power Input

DAT64H

Ultra-Micro Case

2.75in

2.0in

1.15in

DS INSTRUMENTS

Typical User connections for Remote Operation from PC Using Agilent Connection Software

(115200 Baud)

**USB Power
And Interface**

PWR STATUS   DAT64H

ON/OFF

08.5 dB

Host PC
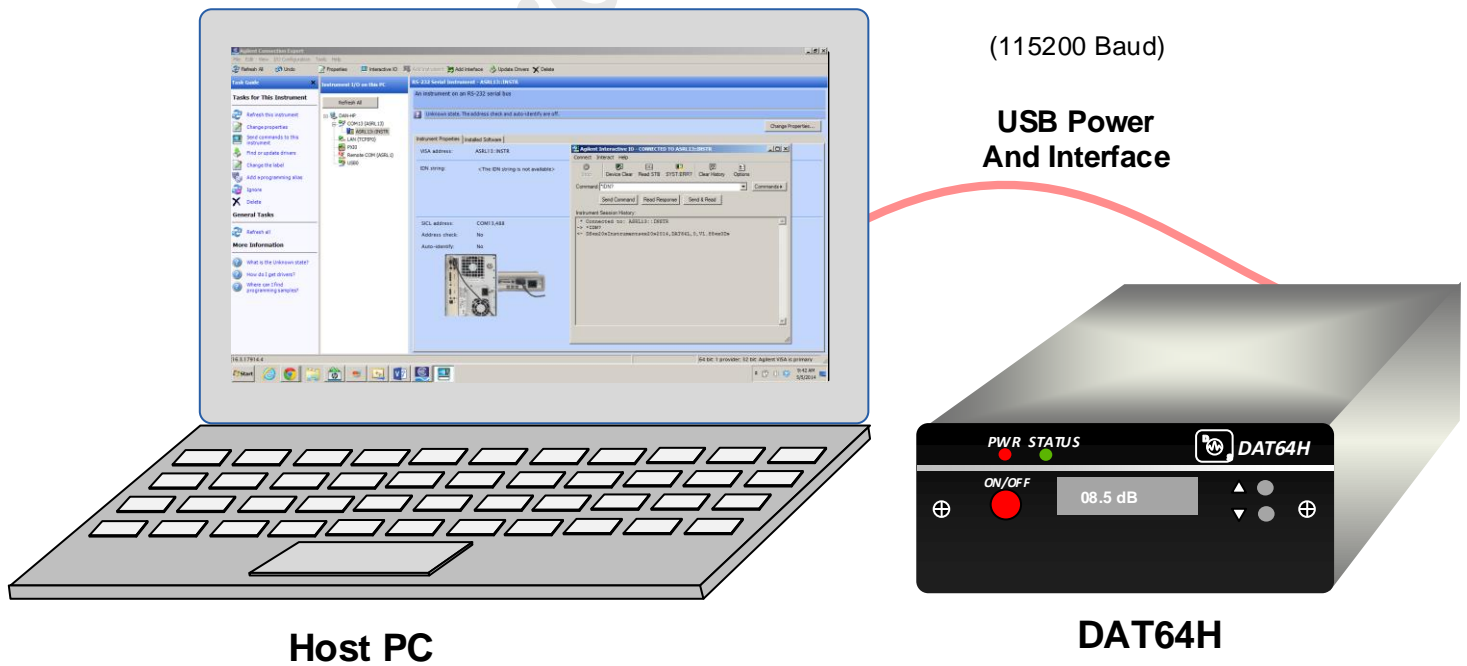
DAT64H

DAT64H

Device Front and Rear I/O Ports

Typical Insertion Loss

DAT64H

USB COM Port SCPI Commands

```
INPUT:ATT xyz       - Set attenuation to "xyz"
INCR                - Increase attenuation by step size
DECR                - Decrease attenuation by step size
INCR x              - Increase attenuation by "x"
DECR y              - Decrease attenuation by "y"
STEP xy             - Set the step size to "xy"
*IDN?               - Return standard identification string
*RST                - Reset device
*SAVESTATE          - Save current attenuation as default boot up value
```

(115200 bps – 8 Bits – Parity: none – Stopbits: 1 – Flowcontrol: none)

Windows GUI

DAT64H

Ordering Information

- **Model DAT64H, 0- 63dB, 100 to 12000MHz Attenuator with OLED Display and Control Buttons**   **$799.00**

- **Option 1 – No display or buttons**   **$739.00**

Contact Information

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