Key Features

➤ **Front Panel OLED Display**

➤ **63 dB Range, 0.5dB Steps**

➤ **1MHz to to 6GHz**

➤ **Standalone Operation, no PC needed**

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

DS Instruments

DAT64L

Programmable RF Attenuator - 63 dB Range With OLED Display and user Interface

DAT64L, A Programmable Attenuator with User Interface

The DAT64 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 DAT64L attenuation both from front panel buttons or remotely and from the USB port. ***No PC is needed to operate the DAT64 as step attenuator***.

Remote Operation

Industry standard SCPI commands allow the DAT64L to be controlled by any PC with a USB interface.

The USB port is configured as a COM port. This allows users software to access the DAT64L as if it were an industry standard COM device.
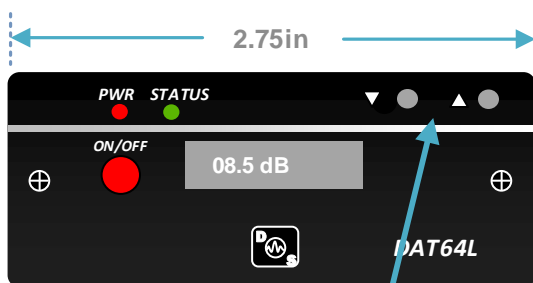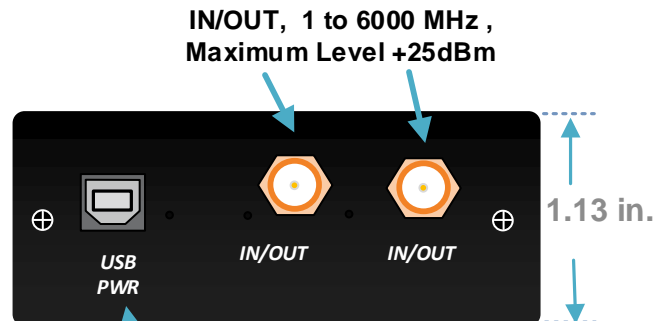
DAT64L

SPECIFICATIONS

Parameter	Min	Max	Typ	Units
DAT64L Frequency Range	1	6000		MHz
Insertion Loss, 1 to 3000MHz	2	4	3	dB
Insertion Loss, 3 to 4.5GHz	4	6	5	dB
Insertion Loss, 4.5 to 6GHz	6	12	8	dB
In/ Out VSWR	1.25:1	1.4:1	1.3:1	-
Attenuation Range	0	63		dB
Min Step Size	0.5			dB
Step Size Error		+/- 0.25		dB
Maximum Input Power		+25		dBm
Third Order Intercept		+55		dBm
Atten. Accuracy,All Atten. States DC-0.8GHz (Referenced to Insertion Loss) 0.8GHz – 6GHz		± (0.10 + 5% of Atten. Setting) Max. ± (0.30 + 3% of Atten. Setting) Max.		
DC Power Input thru USB Port	4.75	5.2	5.0	vdc

DAT64L Front and Rear Panel Features
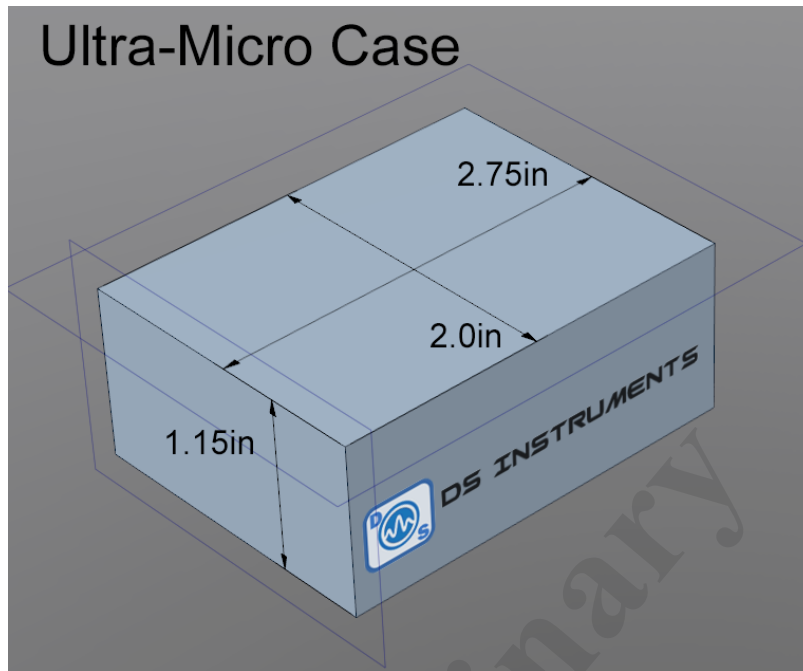
CASE DIMENSIONS:
1.13(H)x2.75(W)x2.0(L) in.

2.75in

08.5 dB

PWR STATUS

ON/OFF

DAT64L

User Interface
Control Buttons

IN/OUT, 1 to 6000 MHz ,
Maximum Level +25dBm

1.13 in.

USB
PWR

IN/OUT

IN/OUT

Mini USB Interface to PC
and DC Power Input

DAT64L

Ultra-Micro Case

2.75in

2.0in

1.15in

DS INSTRUMENTS

Preliminary

USB   RF   RF

SER#

DS INSTRUMENTS

DAT64L

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

(115200 Baud)

**USB Power
And Interface**

PWR STATUS **DAT64L**

ON/OFF 08.5 dB

Host PC
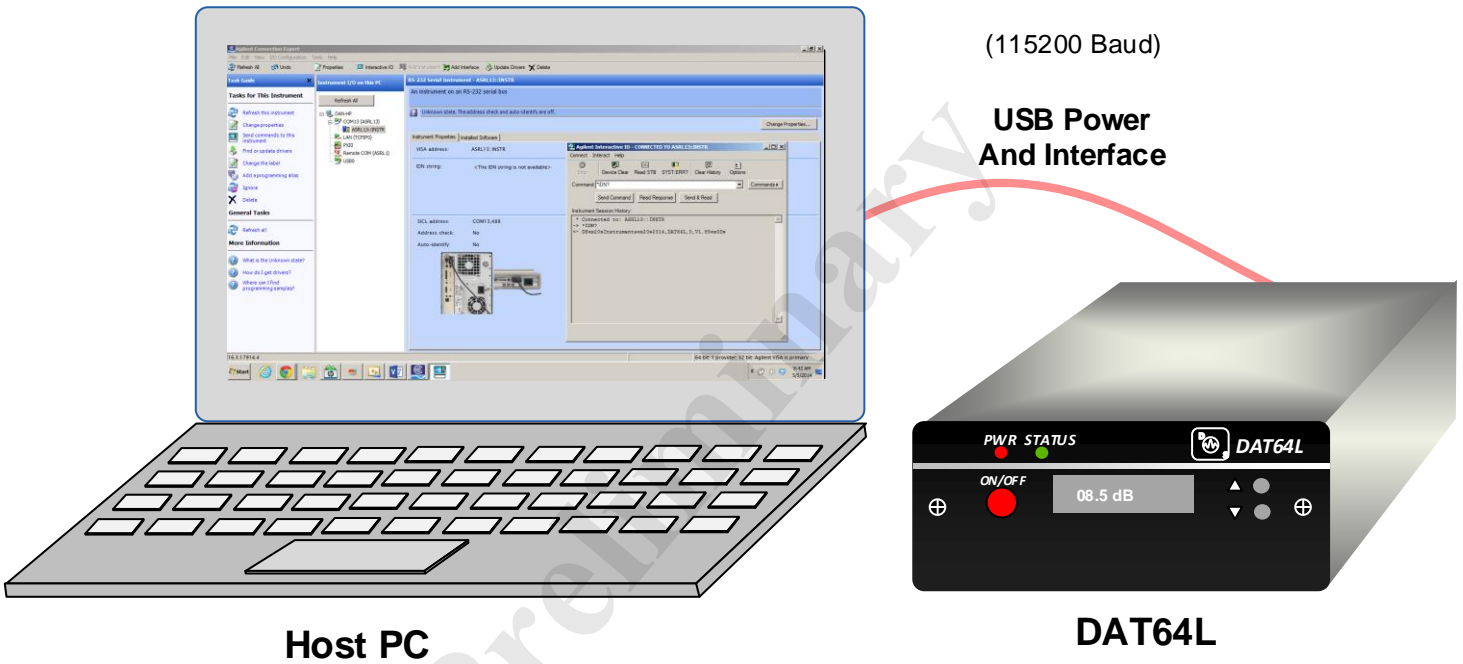
DAT64L

DAT64L

Typical Frequency Response: 30 dB Attenuation
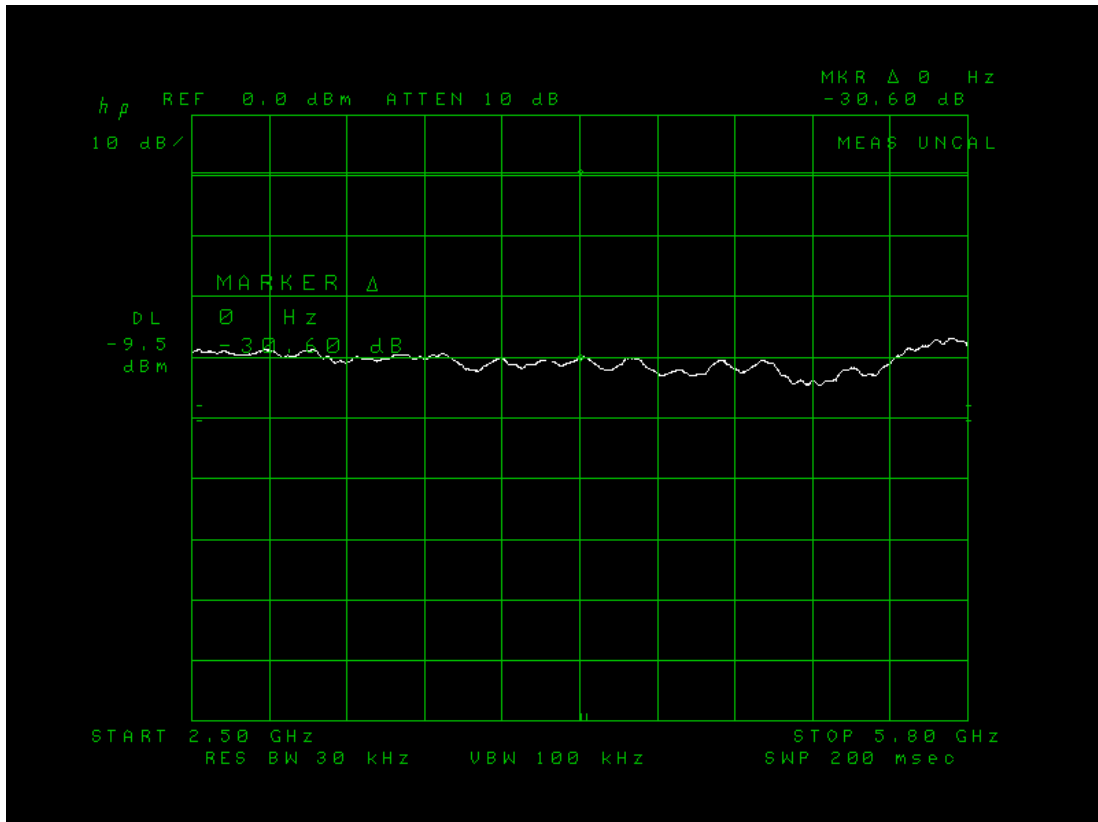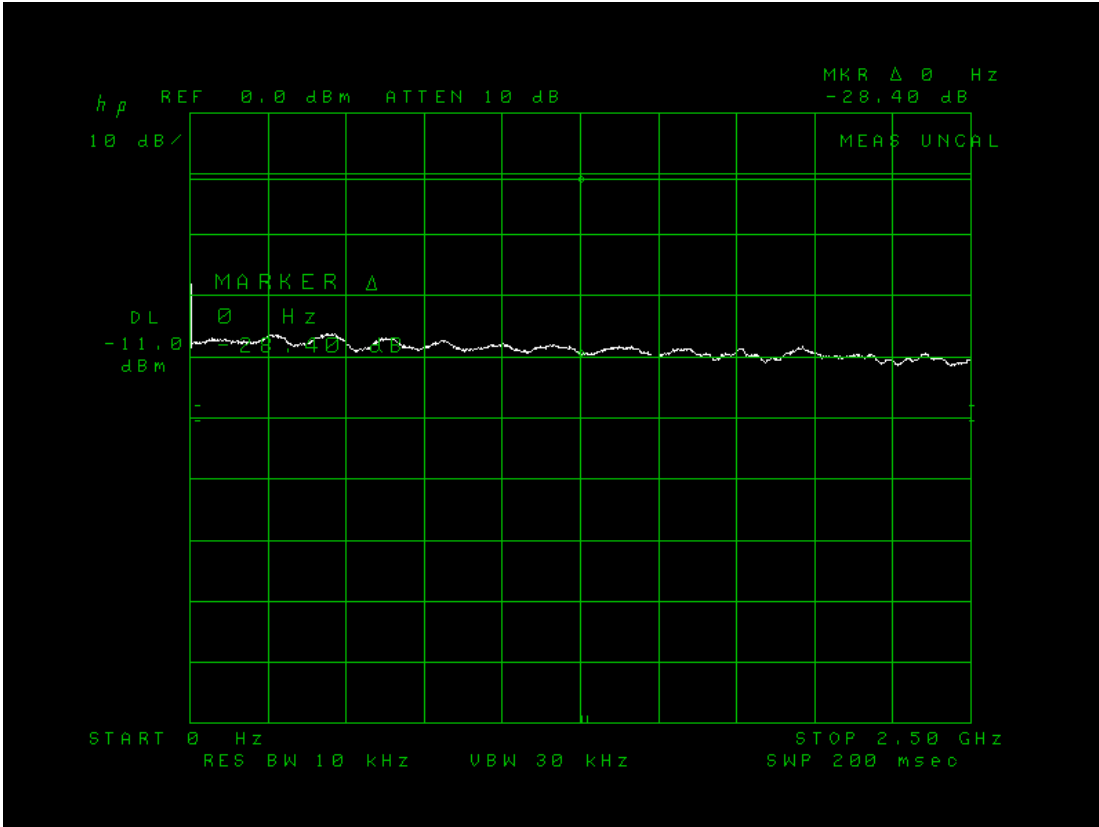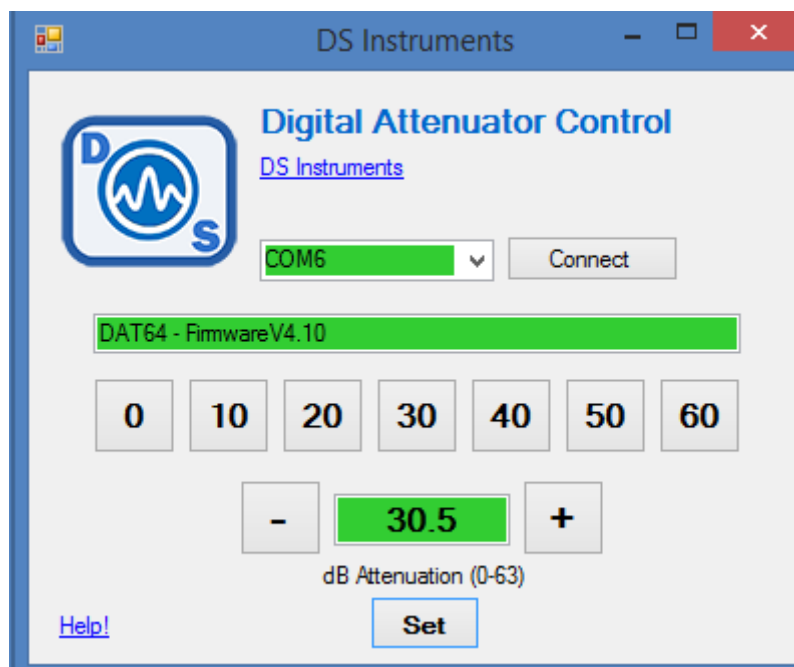
DAT64L

USB COM Port SCPI Commands

```
INPUT:ATT xyz        - Set attenuation to "xyz"
INCR                 - Increase attenuation by stepsize
DECR                 - Decrease attenuation by stepsize
INCR x               - Increase attenuation by "x"
DECR y               - Decrease attenuation by "y"
STEP xy              - Set the stepsize to "xy"
*IDN?                - Return standard identification string
*RST                 - Reset device

                        (115200 Baud)
```

Windows GUI

Ordering Information

Model DAT64L, 0- 63dB, 1 to 6000MHz Attenuator with OLED Display and Control Buttons	**$595.00**