



DS INSTRUMENTS

6GHZ DIGITAL ATTENUATOR – 64DB



Description

The DS Instruments **DAT64L** Digital Programmable Attenuator is a compact stand-alone **and** USB-controlled RF Step Attenuator with 0.5dB steps and a range of 0 to 63dB. This premium version features a bright OLED **display** and front user control buttons. Input frequency ranges from 1MHz to 6GHz. No host PC is required to use

this device. Automated scripted control is extremely easy requiring no extra drivers, just a simple virtual COM port connection and SCPI based text commands.

Now shipping Rev 8 version with both SMA ports on the REAR!

For our **0.25dB** step size version, see the [DAT64F](#). **12GHz** version: [DAT64H](#).

Note that we offer this device for a lower price without the display and buttons for automated USB controlled applications.

Programmable DAT64L Attenuator Specs:

- Frequency: **5MHz – 6GHz**
- Attenuation: **0-63dB**
- Step Size: 0.5dB
- Max input power: +24.0dBm
- Dimensions: 2.75" x 1.25" x 2.15"
- Insertion loss: < 6dB
- Return loss: >15dB Typical
- Third order intercept: +55dBm

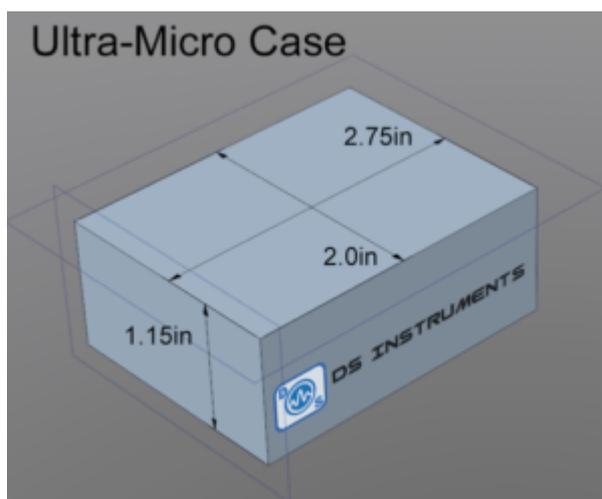
DAT64L Features:

- SCPI command support via USB COM port
- Front buttons and convenient **OLED display**
- Power: 5v standard micro USB cable
- Premium Gold SMA RF connectors
- Extremely compact
- All-Aluminum powder coated black case
- Optional **Ethernet** (2021 version)

Common RF Applications:

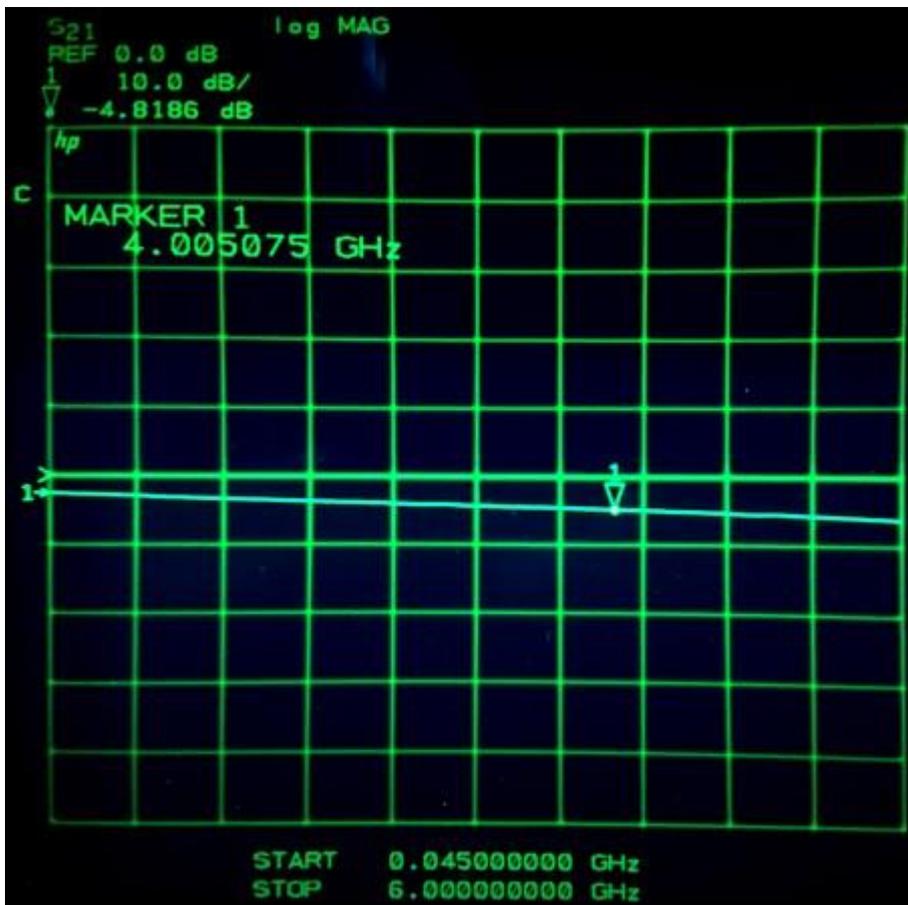
- Automated testing environments
- General RF lab use
- Control systems
- Cellular equipment testing
- Production verification
- Educational / university lab use
- Aerospace / defense research
- Internet of things development
- LTE network testing
- Electronic warfare

Digital Attenuator Control Application:





Typical DAT64 Insertion Loss at 0dB Setting:



Programmable Attenuator Typical Return Loss:

