



AT 490

Digital Attenuator DC-4GHz 90 dB

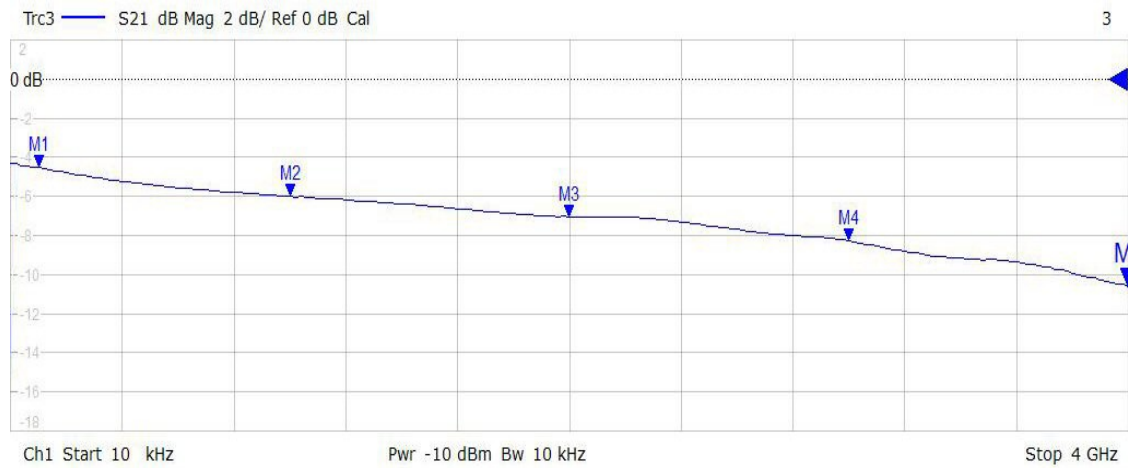
The AT490 is a universal self supplied digital attenuator featuring small form factor, easy operation and remote control capability through 9 points RS 232 serial interface. Its low cost small size and ease of use will shortly make it a trustful companion in any RF professional and amateur laboratory. Besides, its communication features allow to include it easily in a production or lab test bench or in a complete instrumentation system.

Among its main applications, will be found receivers sensitivity measurements, CATV or video monitoring maintenance, automated test benches, radio and RFID systems range measurements or even free space loss simulation for communication systems.

Its frequency range makes it compatible with most popular communication systems : Bluetooth, IEEE 802.11 (WLAN), GSM, DCS1800, UMTS, LTE, GPS, WiMAX...

Features :

- 0 to 91 dB by 1 dB steps, displayed on 2 figures LCD, 9 points RS232 interface
- Frequency range : 100kHz to 4 GHz
- Precision at 25°C :
0.. 15 dB : \pm (0.3 dB +3% of value)
16.. 91 dB : \pm (0.3 dB +5% of value)
(compared to insertion loss)
- Insertion loss: < 6 dB at 1 GHz
< 11 dB at 4 GHz
- Max. power : 20 dBm (0.1 W)
- Supply : 2xAA type battery
- Autonomy : 10 days (250h) in operation
>1 yr in standby (attenuation not maintained)
- External supply : 7 - 15 V dc / < 10 mA
- P1dB : typ. 25 dBm (0,5 .. 4 GHz)
- IP3 : > 35 dBm (0,5 .. 4 GHz)
- Temperature range : 0 .. +70°C (except battery)
- 75 Ω version available: ref. AT290-75 (in this case, the frequency range is limited to 1MHz - 2 GHz)



Typical insertion loss :