

HYTEM

**Atténuateur RF
Bande 380 à 6000MHz
pilotage manuel & port USB**

Type 03.02.501

**CARACTERISTIQUES TECHNIQUES
ET UTILISATION**

TECHNICAL SPECIFICATIONS AND USE

RF USB attenuator 380 to 6000MHz

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CARACTERISTIQUES ET UTILISATION *TECHNICAL SPECIFICATIONS AND USE*

GARANTIE

WARRANTY



La maintenance de cet appareil doit être assurée par du personnel qualifié
muni des équipements appropriés

Pour tout problème de maintenance, veuillez contacter notre Service Clients :

The maintenance of this instrument can only be performed by qualified personnel
provided with the suitable equipments.

For any maintenance problems, contact our Customer Support Service :

HYTEM

2, bis rue du Bois Fourgon
91580 VILLECONIN
FRANCE

Tél : (33) 01 60 80 59 00

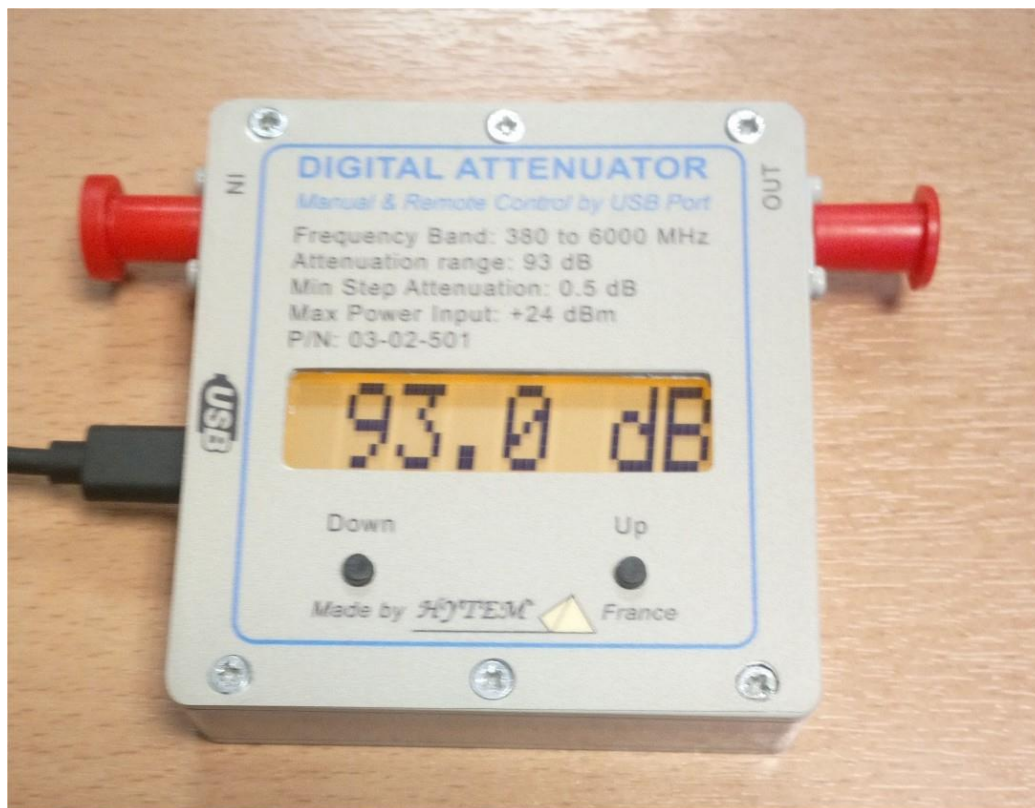
Fax : (33) 01 60 80 33 22

Email : hytem@hytem.net

RF USB attenuator 380 to 6000MHz

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Using the RF USB attenuator:

This attenuator can be used to control the RF power of any frequency source signal from 380MHz to 6GHz. It is powered from 5V USB source computer or POWER BANK.

Its variable frequency attenuation can be done in manual mode, with the help of the UP & DOWN buttons near the display or with our free available control software "Radio Box Driver USB 1 or 2W" which permits to program variable attenuation versus time. Free download at:

<http://maintenance.hytem.net/HRB-USB-1ou2Att-93.5dB-setup-v2.1.rar>

It is also possible to use your own serial interface (python script by example) see USB-ATT at <http://maintenance.hytem.net>

Technical specifications:

Frequency band:	380MHz to 6000MHz
RF connectors:	SMA female
RF impedance:	50 Ω
Maximum Attenuation:	93.0dB
Attenuation STEP:	0.5dB
Insertion Loss:	5.3dB @ 2GHz
Return Loss:	typical -13dB broadband (SMA Input)
Attenuation Accuracy:	see below
Isolation:	see below
Max Power Input:	24dBm (*)
Power supply:	5V @ 40mA

* 27dBm is the absolute maximum rating. Please use the attenuator with 10dBm typical or less

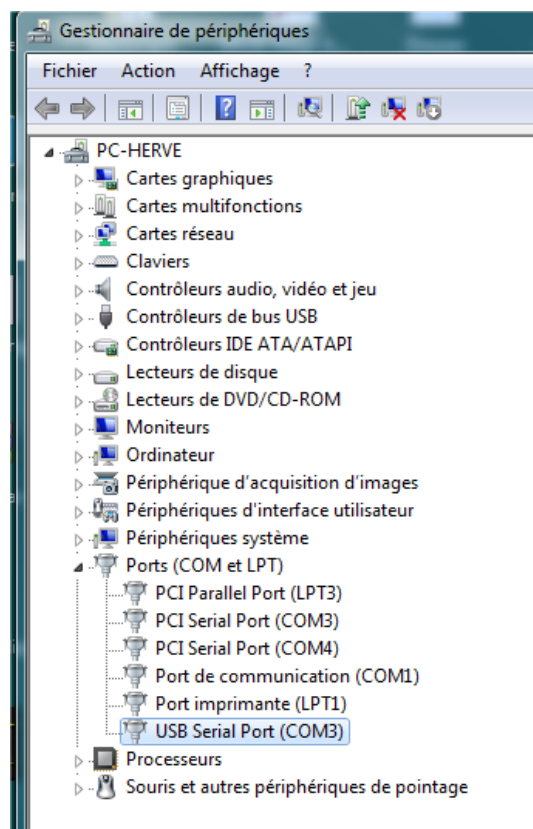
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CONNECTING USB ATTENUATOR TO WINDOWS COMPUTER

Go to device manager. With Win 7-8-10, search for this name: “USB serial port”
Then click on ports (COM & LPT)



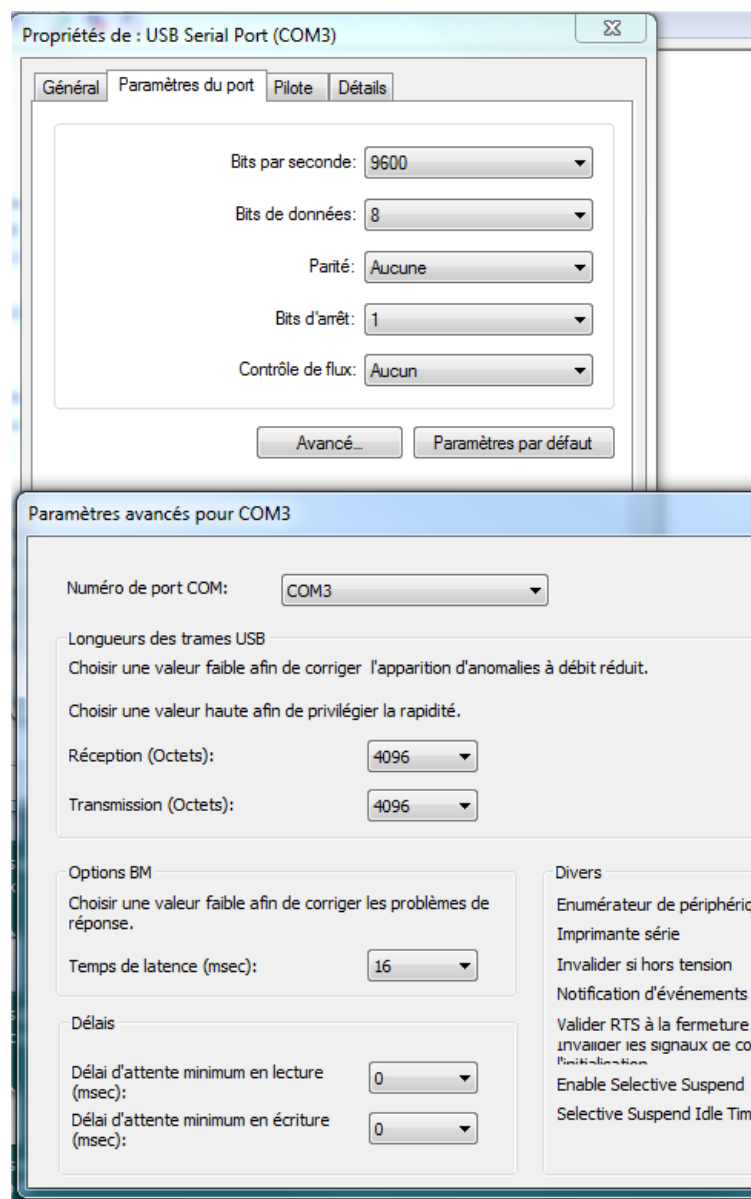
Find the name USB Serial port and see what COM is in use. In this example this is COM3.
But you can change it .

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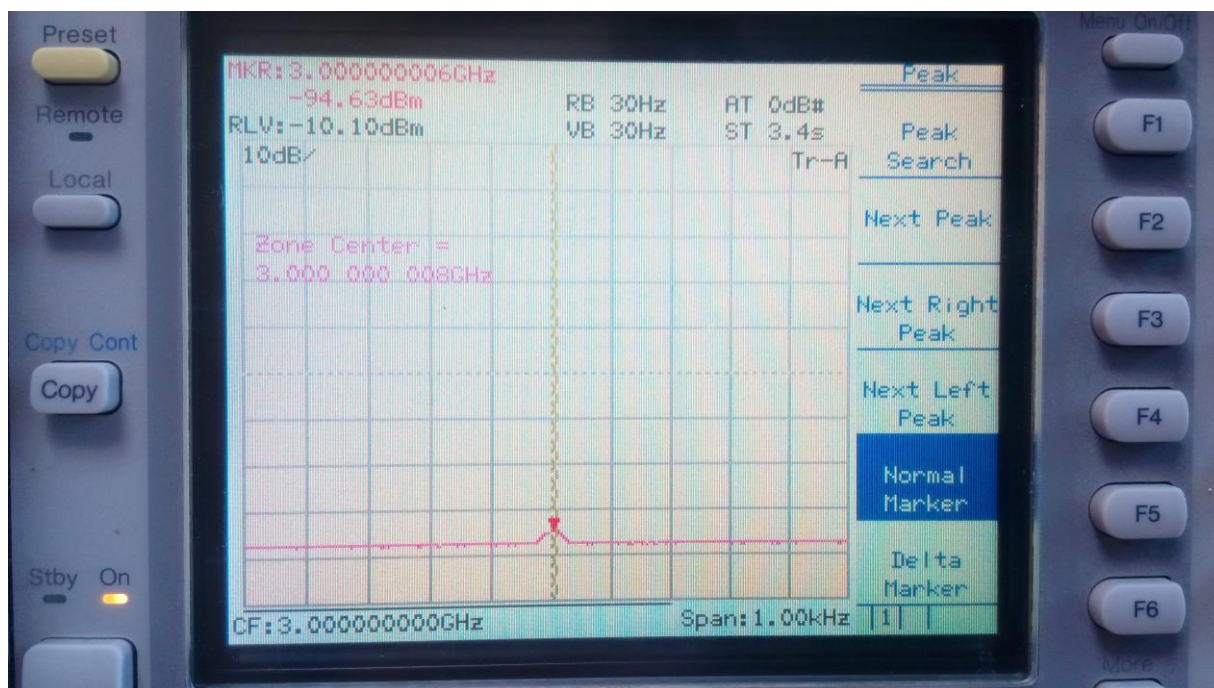


Select new COM port as you want to use for this attenuator.
Remember the choosen COM port for HRB software (Hytem Radio Box)

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Typical result for 03.02.501 USB attenuator:

Mechanical:

Dimensions
Weights

73,6 x 69,2 x 18,0 mm
0,15 Kg

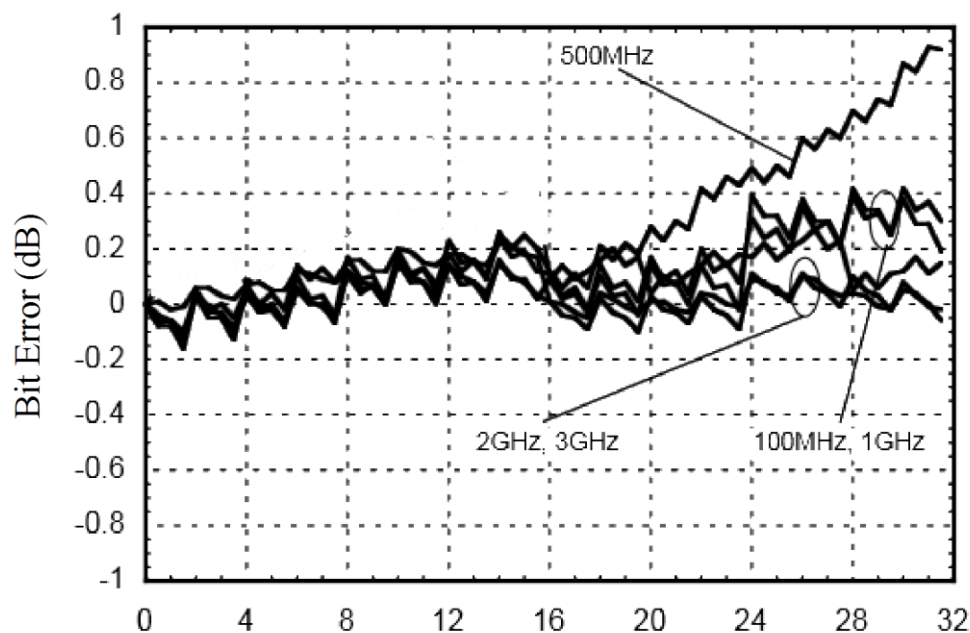
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Our attenuator is a serial 3 chips GaAs Accuracy below is given for one MMIC

Bit Error vs Frequency



NORMALIZED ATTENUATION (Only first states are shown)

