

HYTEM

**Dual Atténuateur RF
Bande 380 à 6000MHz
à pilotage manuel ou sur port USB**

Type 03-02-510

**CARACTERISTIQUES TECHNIQUES
ET UTILISATION**

TECHNICAL SPECIFICATIONS AND USE

MAN 03.02.510
Jan 2015
rev sept 2021

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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

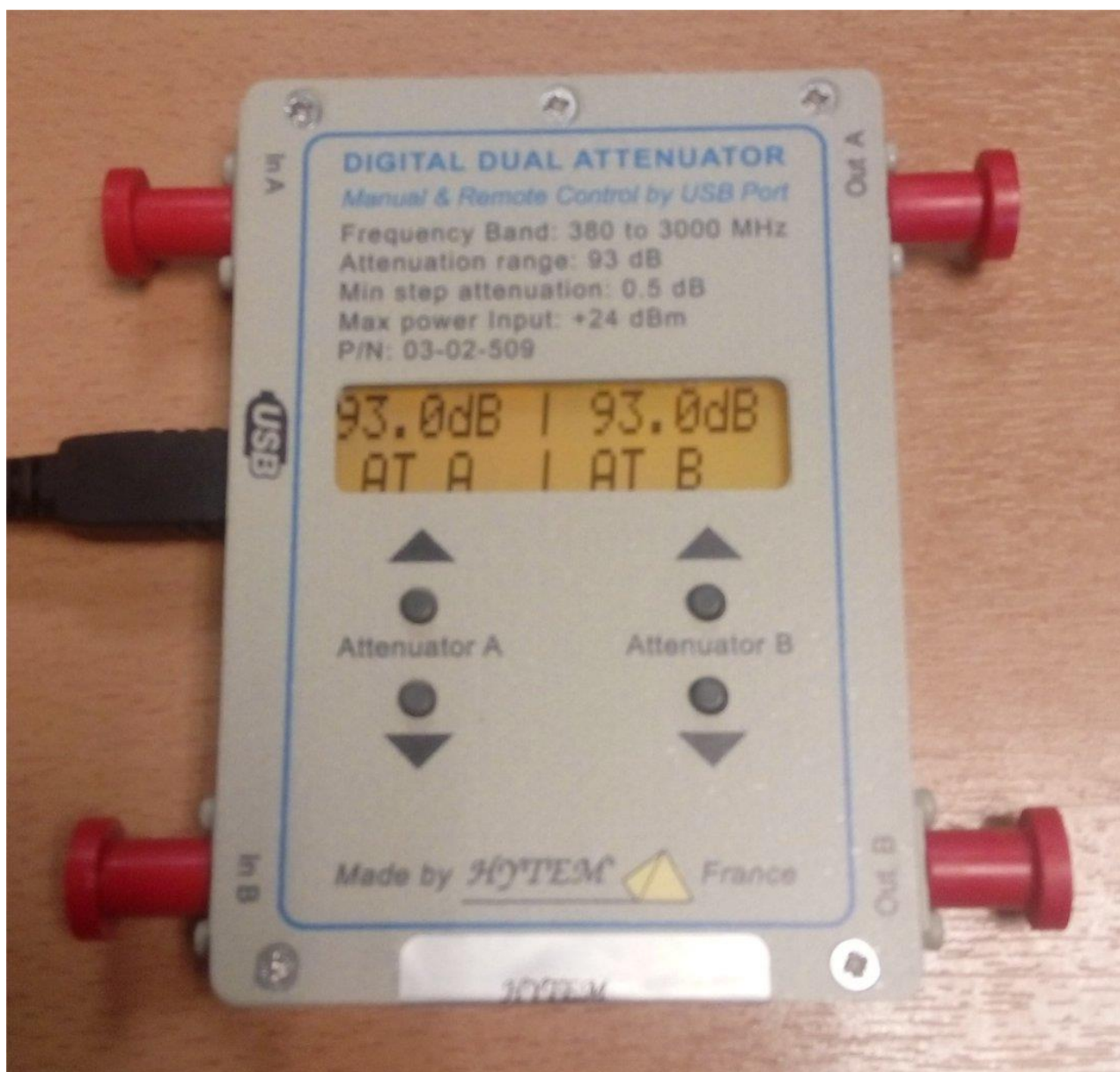
Fax : (33) 01 60 80 33 22

Email : hytem@hytem.net

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Using the RF USB attenuator:

This dual attenuator can be used to control the RF power of any frequency source signal from 380 to 6000MHz. It could be powered from 5V USB source 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.

DOWNLOAD SOFTWARE URL: <http://maintenance.hytem.net/> (choose HRB for USB)

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Technical specifications:

Frequency band:	380MHz to 6000MHz
RF connectors:	SMA female
RF impedance:	50 Ω
Maximum Attenuation:	93dB
Attenuation STEP:	0.5dB
Return Loss:	Better than -12dB (VSWR = 1.67) 380-4000 Better than -8dB (VSWR = 2.3) 4000-6000
Attenuation Accuracy:	see below
Isolation:	see below
Max Power Input:	24dBm (*)
Power supply:	5V @ 40mA

* 24dBm is the absolute maximum rating. Please use the attenuator with 10dBm typical or less

Typical ISOLATION and INSERTION LOSS

	Insertion Loss (dB)	@ 75dB
700 MHz	-5.3	-78.7
1500 MHz	-6.3	-82
2000 MHz	-6.9	-82
2700 MHz	-8.6	-84.5
5300 MHz	-8.9	-90.2

Mechanical:

Dimensions : see figure 2

Weights : 180G

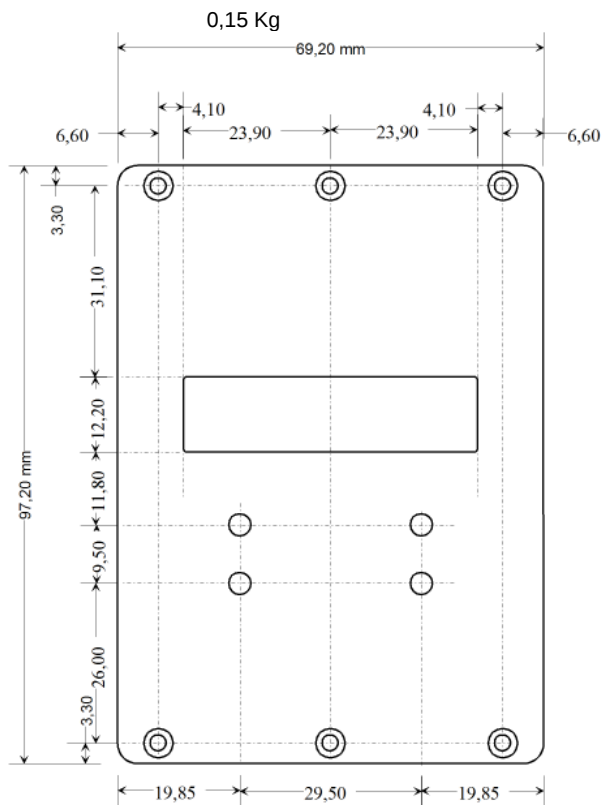
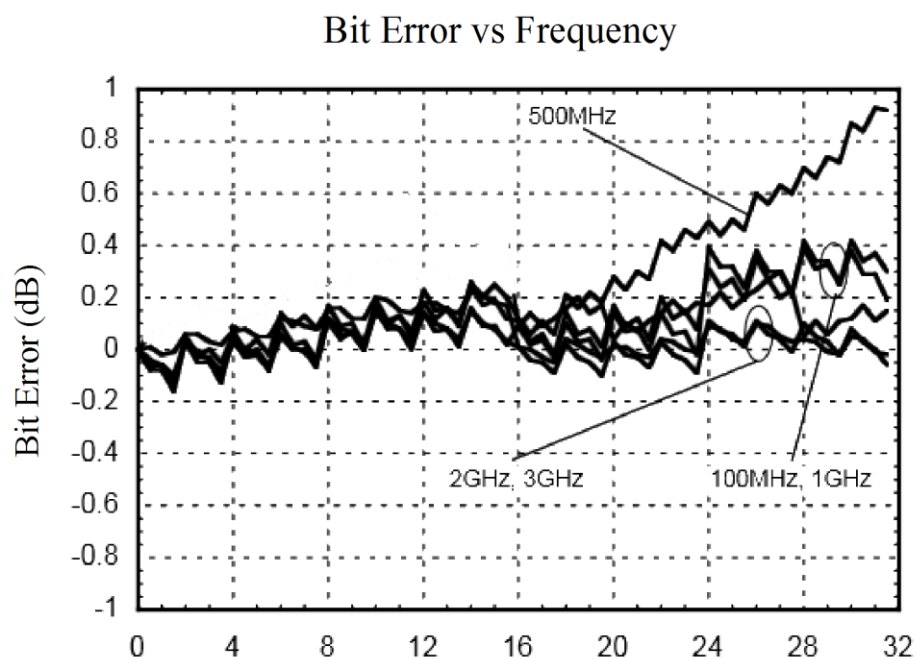
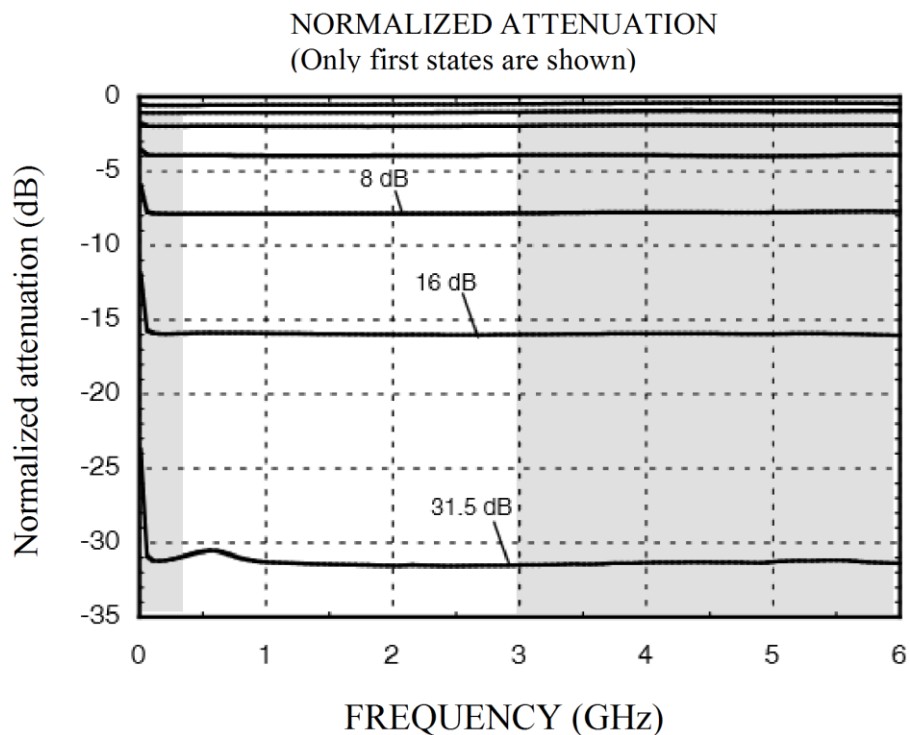


fig 2

Dual RF USB attenuator 380 to 6000MHz

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Attenuation State

HYTEM USB ATTENUATOR (02/2014) Herve helleboid

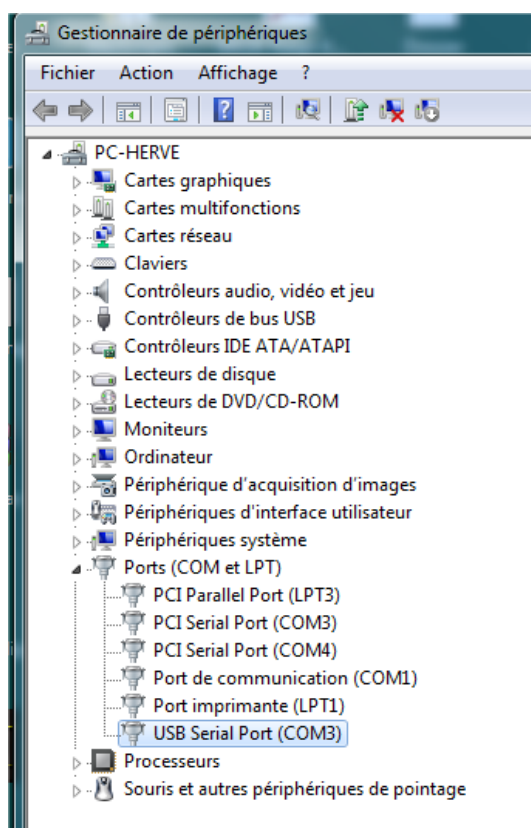
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CONNECTING USB ATTENUATOR TO WINDOWS COMPUTER

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



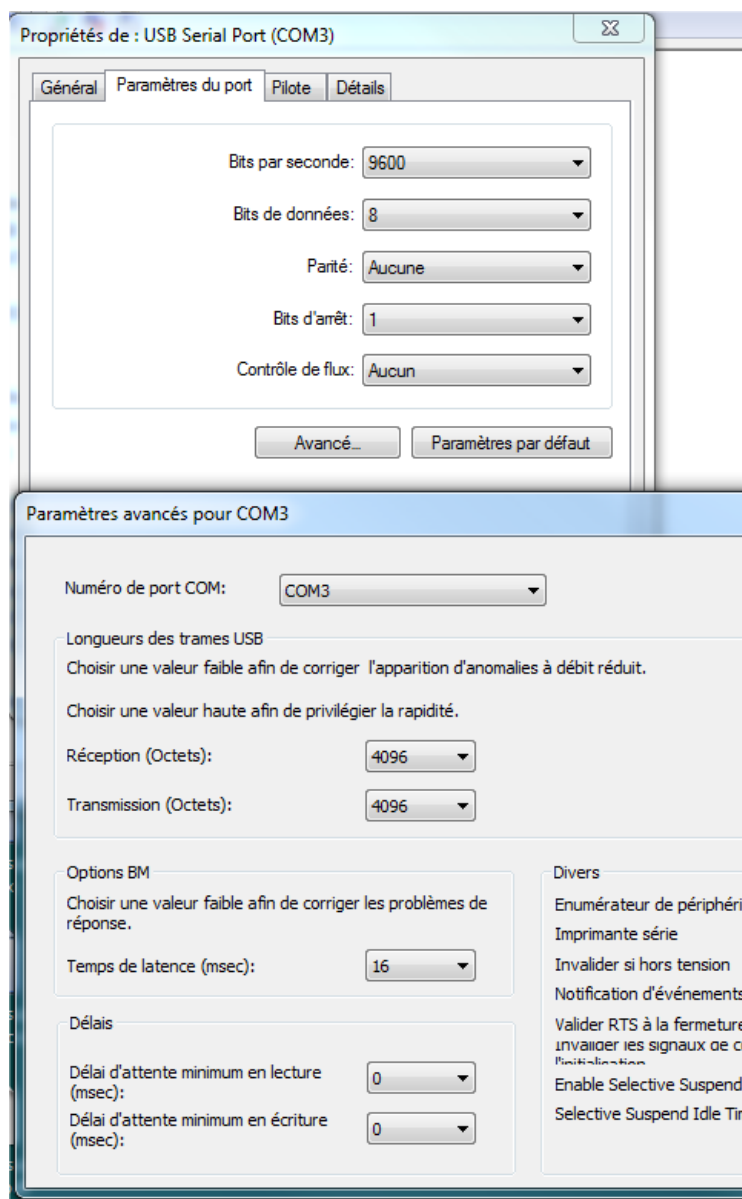
Find the name USB Serial port and see what COM is in use. In this example this is COM3.
But you can change it .

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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)

You can download software at:

<http://maintenance.hytem.net/>

then choose HRB for USB.

There is also a way to control your attenuator with your own script:

Download doc: USB att CLI

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