

Attenuator Unit PAH-4000/93-8

MTS-No.: 69.00.0320

Application

With this Attenuator Unit it is possible to test mobile communication equipment. It can be used to balance the different signal levels or to emulate the air interface. A controllable signal attenuator is built in between each input and output.

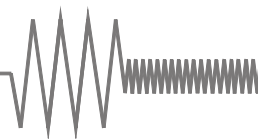
Description

Attenuator Unit with 8 programmable attenuators model PAH-4000/93 controlled by up/down buttons, RS-232 interface and IEEE488. Each input is wired via a programmable attenuator to one output.



Characteristics

- ▶ Usable for all frequencies between 800 MHz and 3000 MHz, such as GSM / DCS / DECT / UMTS etc.
- ▶ 8 Programmable attenuators
- ▶ Attenuation range from 0 dB to 93 dB in 1 dB steps
- ▶ Separate indication with 3x7-segment display for number (one-digit) and for adjustment (two-digit) of the selected attenuator
- ▶ Up/down buttons for manual control
- ▶ Controlled by IEEE488 and RS-interface
- ▶ Optional: interfaces (LAN, USB etc.) and connectors to customers specifications
- ▶ 800 MHz to 4000 MHz or up to 8000 MHz possible with reduced specs
- ▶ Windows operating software on demand
- ▶ Attenuator Units can be designed according to customers individual requirements



Attenuator Unit PAH-4000/93-8

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Configuration:

8 pcs. attenuators model PAH-4000/93

Technical data:

1 RF-specifications:

1.1 Impedance	50 Ω
1.2 Input power	+26 dBm max.
1.3 Frequency range	800 MHz – 3000 MHz (800 MHz – 4000 MHz or up to 8000 MHz possible with reduced specs.)
1.4 RF-connections	N female
1.5 Switching time	50 ms max.
1.6 VSWR In	1,8 : 1 max.
1.7 VSWR Out	1,8 : 1 max.
1.8 Insertion loss	7,5 dB typ., 8,5 dB max.
1.9 Attenuation	0 dB – 93 dB in 1dB steps
1.10 Gradation	1 dB / 2 dB / 4 dB / 8 dB / 16 dB / 16 dB / 16 dB / 30 dB (0,5 dB steps on request)
1.11 Setting accuracy at 1 dB steps	1 dB – 23 dB: \pm (0,3 dB + 5% of the attenuation value) 24 – 93 dB: \pm (0,5 dB + 10% of the attenuation value)

2 Connections:

2.1 Front side	Power supply switch with integrated control lamp RF-connections 3x7-segment display with up/down pushbuttons
2.2 Rear side	Power supply Control card Appliance plug with the integrated fuses F1 and F2 Ground connector

3 General specifications:

3.1 Power supply	100 V – 240 V 50 Hz / 60 Hz
3.2 Internal voltage	5 V DC
3.3 Control displays	Control lamp in power switch 3x7-segment for attenuator number and attenuator adjustment

3.4 Control interfaces	Manual control (up/down buttons) IEEE488 RS-232
3.5 Power consumption primarily	0,03 A nominal @ 230 V
3.6 Voltage supply	Standard rubber connector
3.7 Operating temperature	0 °C to +50 °C
3.8 Reference temperature for specifications	+25 °C
3.9 Dimensions	19"-unit x 2 HU x 350 mm (dimensions without handles and connections)
3.10 Colour	Front side: colourless anodized Rear side: yellow chromated
3.11 Weight	6,0 kg

4 Delivered parts:

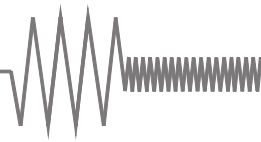
PAH-4000/93-8
Power cable
Operating manual (on CD)

5 Comments:

Warranty	12 months
RoHS-compliant	Yes

6 Recommended accessories:

Shielding box of the
series MSB-02xx
RF-cables



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Views:

