

Step Attenuator Unit ELTG-4000/55-8

MTS-No.: R69.00.0430

Application

Step Attenuator Units are required to perform high precision measurements of gain, attenuation or linearity in a very wide RF frequency range and with steady impedance.

Description

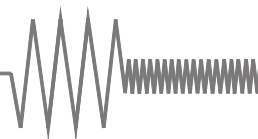
The MTS Step Attenuator Unit ELTG-4000/55-8 offers 8 attenuators that can be used in the range from 500 MHz to 4000 MHz. The attenuation can be changed in steps of 0,1 dB from 10 dB up to 65 dB by entry of relative or absolute values. To achieve high accuracy, optimized settings of the internal attenuation cascades are stored in 25 MHz steps for the whole frequency and attenuation range.

In the same case are two passive modules arranged for signal connections via patch cables: 3x splitters 1 to 4 and 4x hybrid couplers.



Characteristics

- ▶ Configuration: 8x attenuation lines, 3x splitters/combiners, 4x hybrid couplers
- ▶ Attenuation in steps of 0,1 dB
- ▶ Easy manually operation with touchpanel display
- ▶ Large frequency range from 500 MHz to 4000 MHz.
- ▶ High accuracy due to internal correction in 25 MHz steps
- ▶ Attenuation range from 10 dB to 65 dB
- ▶ High isolation >100 dB
- ▶ Control by RS-232 and LAN (other interfaces on demand)
- ▶ Manual control with touch panel display
- ▶ Input power up to 2W cw at 25 °C
- ▶ High switching reliability
- ▶ Economic and modular design (8 attenuator paths as standard)
- ▶ High quality materials and components for extended durability
- ▶ Step Attenuator Units can be designed according to customers individual requirements.



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Configuration:

8x Attenuation lines, 3x splitters/combiners, 4x hybrid couplers

Technical data:

1 RF-specifications attenuation lines:

1.1 Impedance	50 Ω
1.2 Input power	2 W Avg. @ 25 °C, derating 0,015 W/°C
1.3 Frequency range	500 MHz – 4000 MHz
1.4 RF-connections	N female
1.5 VSWR In / Out	2 : 1 max.
1.6 Isolation (between the attenuation lines)	100 dB
1.7 Insertion loss	10 dB @ 10 dB setting
1.8 Attenuation incl. insertion loss	10 dB – 65 dB
1.9 Gradation	0,1 dB
1.10 Setting accuracy	\pm (0,8 dB + 1,5 %)
1.11 Temperature dependency	\pm 0,02 dB / °C
1.12 Calibration time	12 months

2 RF-specifications splitters / combiner:

2.1 Impedance	50 Ω
2.2 Input power (used as divider, with load VSWR < 1,2 : 1)	10 W Avg. @ 25 °C
2.3 Frequency range	800 MHz – 2500 MHz
2.4 RF-connections	N female
2.5 VSWR In / Out	1,4 : 1 max.
2.6 Isolation	20 dB min.
2.7 Insertion loss	7,5 dB max.

3 RF-specifications hybrid couplers:

3.1 Impedance	50 Ω
3.2 Input power	160 W Avg., 1,5 kW power peak
3.3 Frequency range	700 MHz – 2700 MHz
3.4 RF-connections	N female
3.5 VSWR In/Out	1,2 : 1 max.

3.6 Isolation	25 dB min.
3.7 Coupling loss	4,5 dB max.

4 Connections:

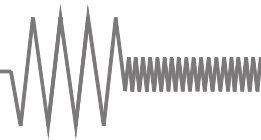
4.1 Front side	Display with touch panel On/off switch RF-connections for input power splitters, attenuation lines, hybrid couplers and output combiner
4.2 Rear side	Appliance plug, Fuses F1 and F2 Ground connector Control interfaces

5 General specifications:

5.1 Power supply	100 V – 240 V, 50 Hz / 60 Hz
5.2 Internal voltage	5 V DC / +12 V DC / +28 V DC
5.3 Control displays	Lighted display
5.4 Control interfaces	LAN RS-232
5.5 Power consumption primarily	300 mA max. @ 230 V (no relay switched) 2 A max. @ 230 V (all relays switched)
5.6 Voltage supply	Standard rubber connector
5.7 Operating temperature	+10 °C – +30 °C
5.8 Reference temperature for specifications	+25 °C
5.9 Dimensions	Desktop unit 84 TE x 14 HU x depth 550 mm (dimensions without handles and connections)
5.10 Colour	Front side colourless anodized Rear side colourless anodized
5.11 Weight	41,2 kg

6 Delivered parts:

Step Attenuator Unit
Power cable
20 x RF-cables (for patching)
Operating manual (on CD)



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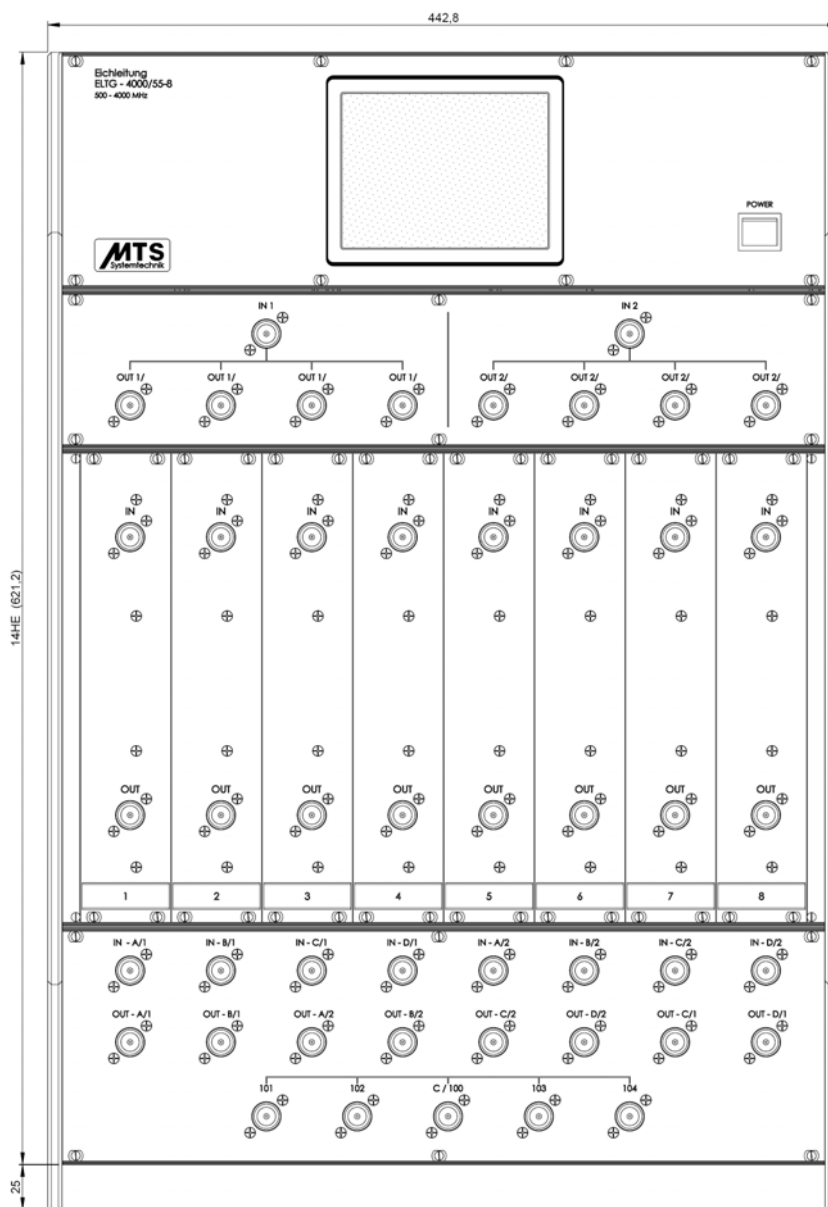
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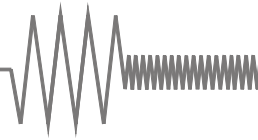
Warranty 12 months
RoHS-compliant Yes

8 Recommended accessories:

RF-cables
Hybrid couplers
Splitters/combiners

Views:





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