



# AMZ 41A ABSORBING CLAMP



The absorbing clamp AMZ 41A has been designed for measurement of radio interferences emitted from electrical instruments via their connecting leads. The absorbing clamp measurement method (ACMM) is described in Clause 7 of CISPR 16-2-2. The absorbing clamp itself is described in CISPR 16 part 1-3: Radio disturbance and immunity measuring apparatus – Ancillary equipment – Disturbance power.



### Application

- Disturbance power measurements of CISPR 13 and CISPR 14
- Measurement of screening attenuation of coaxial cables
- Testing of screening components, e.g. for motor ignition systems
- Measurement of sheath currents in aerial cables.

### Benefits, obtainable from this measuring method

Simplified measurement procedure as compared to RF field measurement, so that no anechoic room is required; High reproducibility of test results.

- As specified in CISPR 16-1-3
- Disturbance power measuring, according to CISPR 16-2-2
- Can be used as diagnostic tool
- Measurement of screening attenuation of coaxial cables

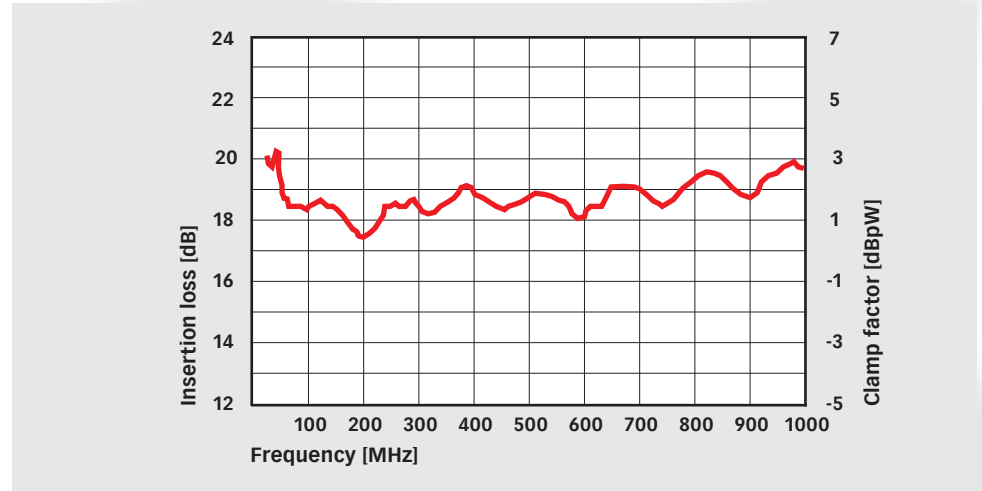
### Technical specifications of AMZ 41A

Frequency range:	30 MHz to 1000 MHz
Min. site attenuation:	13 dB to 22 dB
Clamp factor (CF):	-4 dB to +5 dB, see next page for typical values
Decoupling factor DF:	>21 dB
Decoupling factor DR:	>30 dB
Maximum input power for use as injection clamp:	<10 W
Isolated lines under test:	Power supply lines and other connecting lines
Max. cable diameter, inner:	20 mm
Max. cable diameter with adapter:	10 mm
Max. operating current:	25 A
Operation mode:	continuous
RF connector type:	BNC, 50 Ω
Operating temperature:	+5°C to +40°C
Size (over all) W x D x H:	665 mm x 120 mm x 105 mm
Weight:	approx. 7 kg



AMZ 41A, side view

Typical clamp factor of AMZ 41A with connected RF cable RG223 with 5 m length



The interference output is determined by the following formula:

$$P = V + CF$$

P is the disturbance power in dB(pW)

V is the measured voltage in dB(μV)

CF is the clamp factor in dB(pW/μV)

Delivery information

Part number	Description
235601	AMZ 41A Absorbing clamp CISPR 16-1-3 and LE 210 (RF cable, BNC(m)-BNC(m), 5 m, RG223, with one right-angle plug)
97-235601	AMZ 41A-TC Traceable calibration (ISO17025), order only with device AMZ 41A
238251	MBT 1 Hand-operated lane for AMZ 41A