ABSORBING CLAMP – ACF-01B

acc. to CISPR-16-1-3, EN 55014-1

Description

The absorbing clamp is used for measurements according CISPR 13 / 14 / EN 55014-1, etc. In measurement setup the power cord of equipment under test has to be extended to a length of 6m. The cable is fed through the clamp's opening and put on a nonmetallic table. It is connected to a power supply. The measuring receiver is connected to the 50 Ohms output of the clamp. The clamp, which is moveable on wheels, is driven along the cable to the power supply. If decoupling of the clamp is too weak, an optional decoupling clamp could be used on the power line close to the power plug. The detected maximum resonance is the requested measuring value. As the clamp is constructed to have 17dB coupling attenuation the receiver voltage (dBµV) is equal to the interference power (dBpW). A 6dB attenuator at the clamps output increases the measuring accuracy as described in CISPR 16-1-3 and the measuring result has to be corrected acc. to the attenuator's value.

Technical data	
Frequency range	30 MHz to 1000 MHz
Typical insertion loss acc. to CISPR-16	17 dB ±4 dB
Decoupling (typ.)	1 MHz -30MHz: 5dB – 20dB, >20dB from 30MHz to 1 GHz
Impedance	50 Ω
Max. input current (peak)	30 A
Input power (peak)	5 W
Max. cable diameter	20mm
Dimensions (B x H x D) in mm	600 x 105 x 80
Weight	6.5kg

EMI power dBpW = Measured Voltage dBµV + (Correction Clamp dB incl. optional Attenuator)