

Broadband Loop Antenna BRA1

150 KHz to 30 MHz (suitable as measuring antenna from 0,3 to 30 MHz)

Description: Active Broadband- Loop- Antenna covering the broadcast- range from 150 KHz to 30 MHz. The Antenna utilizes a Norton- type amplifier with low THD and input circuit protection against damaging by statics. DC supply works via the rf- coaxial cable. The antenna is suitable for outdoor installations, especially for fieldstrength measurements (documented linear frequency response from 0,3 to 30 MHz).



Power Supply:	220VAC / 15V DC 0,1A	Antenna factor (E-field)* AF:	typ. 30 dB (1/m)
Loop diameter:	64cm	Deviation of AF (0,3-30 MHz) :	< 1 dB
Weight:	approx. 1,3 Kg	Amplifier Noise Factor:	< 3,5 dB
Connector:	50 Ohms / FME	Suppression of E-field:	> 35 dB
Mounting clamp diameter:	40 to 68 mm	Directional characteristic:	Double circle

Aequivalent E-fieldstrength calculated from

third order input intercept:	typ. 178 dB(μ V/m)
1dB compression :	typ. 157 dB(μ V/m)

Typical output noise:

at 9 kHz BW; AV: < -12 dB μ V eq. < 18 dB(μ V/m) (0,3 - 30 MHz)
200 Hz BW; AV: < -29 dB μ V eq. < 1 dB(μ V/m) (0,3 - 30MHz)

Maximum possible output level: approx. 130dB(μ V/m)
corresponding 0,2 W

*The BRA1 is a H-field responding antenna. The specified E-field antenna factor AF yields from conversion of H-field strength by use of the free- room impedance (377 Ohms). Thus AF is valid exactly under far- field- conditions.

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