

AIRBÄT®

ACCU-24
BATTERIEN & SYSTEME GmbH

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Date: 20.05.2020
Page: 1 of 2



MODEL: **AIRBATT MGAF 108-550 MHz
Mobile Antenna
with foot**

ARTICLE NUMBER: **8006748**

EAN: **4032661062451**

HERSTELLER: **AIRBATT**
ACCU-24 Batterien & Systeme GmbH
Untergasse 5, 63688 Gedern

DESCRIPTION

1/4 λ mobile antenna covering the frequency range of 108 – 550 MHz (use enclosed cutting diagram on page 2).

Suitable as an external antenna for handheld radios such as the ICOM IC-A series e.g. on return vehicles or fixed installations to achieve a greater range.

MGA series is made of 17/7 PH stainless steel rod and stainless steel spring. They are supplied with "SL", "S" mount (from 55 up to 300 MHz).

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MECHANICAL DATA

Size (L x W x D):	705 x 35 x 35 mm
Weight:	420 g
Material:	stainless steel 17/7 PH, nylon, chromed brass
Connector:	5 m RG58 Kabel
Feed System/Position:	direct/base
Mounting:	DV-S-Fuss (Ø 35 mm)

ELECTRICAL DATA

Type:	1/4 Lambda
Frequency range:	118,000 MHz – 136,000 MHz (108,000 MHz – 550 MHz) (tuneable by cutting)
Max. Power:	100 W
Impedance:	50 Ω
Radiation:	omnidirectional
Polarisation:	vertical
Gain:	0 dB

MOUNTING INSTRUCTIONS

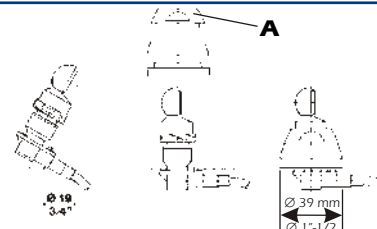
The frequency is tuned by shortening the radiator according to the attached table.

Be careful during installation do not use too much strength but tighten the metal ring A by means of the suitable tool.
TIGHTENING TORQUE: 4 Nm $\pm$ 10%.



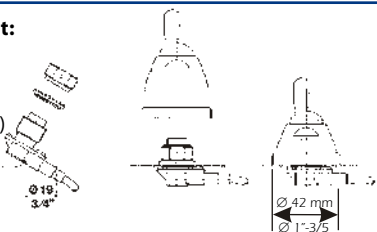
Standard Mount:

"SL", mounting
hole Ø 19 mm,
cable 5m RG 58
(55 – 550 MHz)



Alternative Mount:

"S", mounting
hole Ø 19 mm,
cable 5m RG 58
(55 – 300 MHz only)



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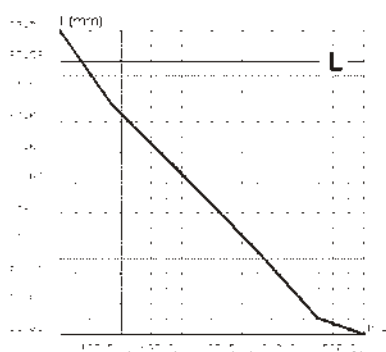
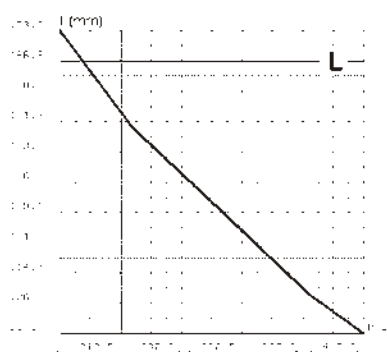
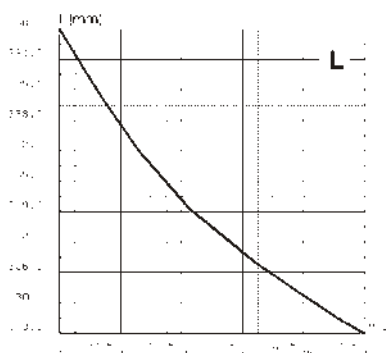
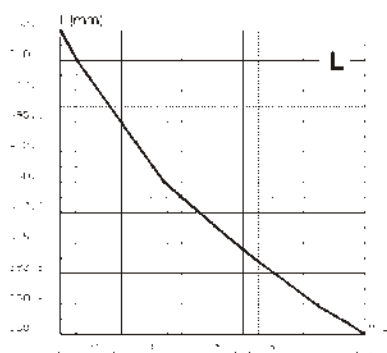
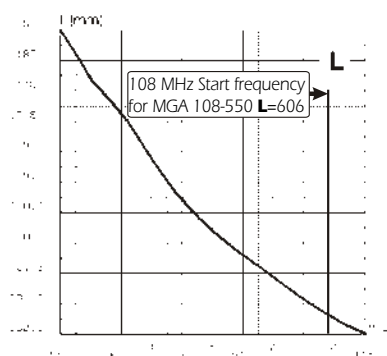
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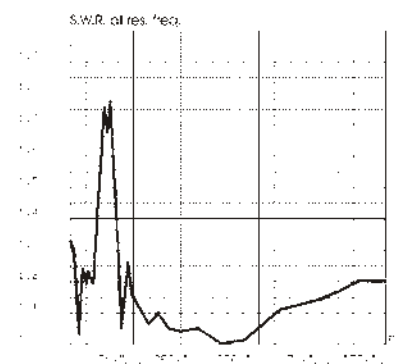
Note: Use curves just as a guide. For finetuning please use an SWR-Meter

TUNING DIAGRAMS VS. FREQUENCY



TYPICAL MATCHING DIAGRAM VS. FREQUENCY

SWR @ res. freq.:
see diagram (SL-Mount)



TYPICAL BANDWIDTH DIAGRAM VS. FREQUENCY

Bandwidth @ SWR ≤ 2:
see diagram (SL-Mount)

