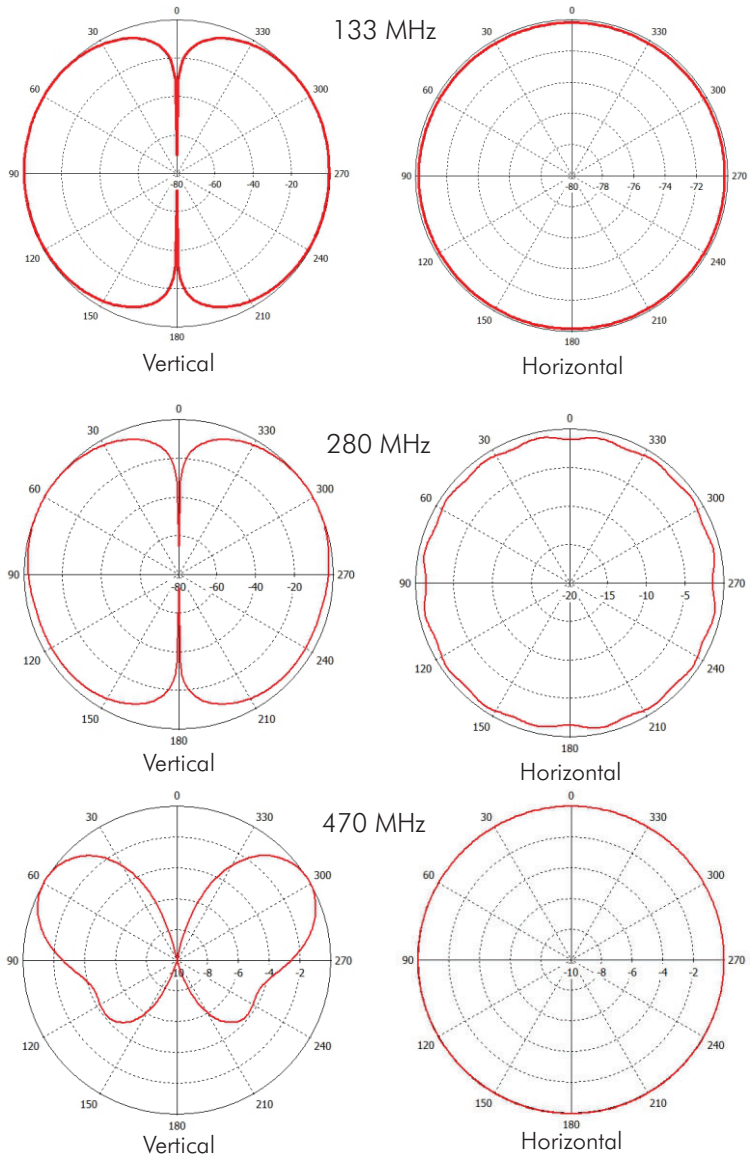
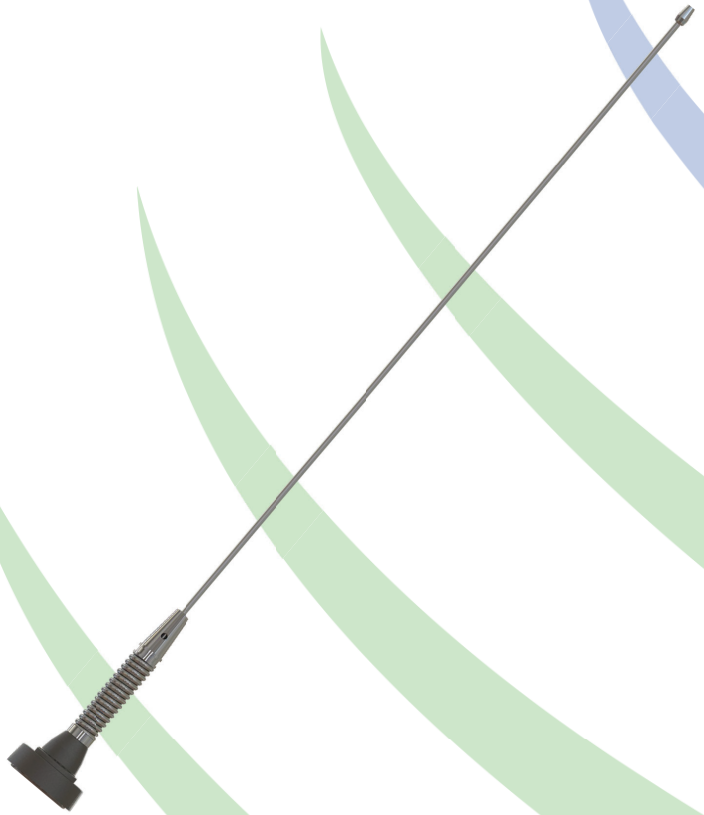
IRRADIANCE DIAGRAMS (VERTICAL AND HORIZONTAL)



MOBILE VHF/UHF 1/4 WAVE WIDEBAND ANTENNA INJECTED NMO BASE

AP17086 - AP17186 - AP17286



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Av. Cidade Fukuyama, 725 - CEP 19064-210 - Presidente Prudente - SP
www.steelbras.com.br

INDÚSTRIA BRASILEIRA

26/05/2023

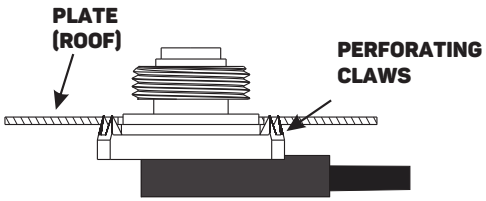
MOBILE VHF/UHF 1/4 WAVE WIDEBAND ANTENNA INJECTED NMO BASE

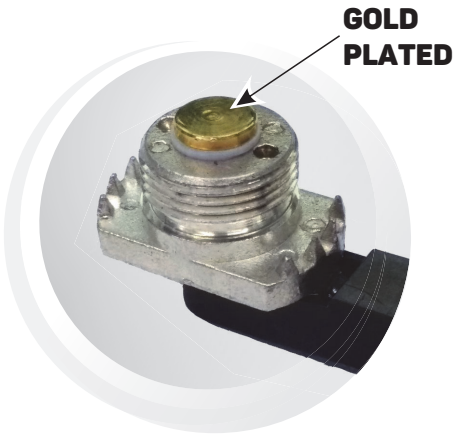
AP17086 is designed to operate in the VHF and UHF (Broadband) bands, being 1/4 wave with a 12MHz passband in VHF, with VSWR ≤ 1.5:1. It is made from chrome-plated brass and high-quality stainless steel. It has gold-plated positive connectors, an injected ABS cover with UV protection, high deformation rubber, resistant to ozone, weather and chemicals. The spring in its base makes it resistant to eventual impacts, considerably extending the life of the antenna.

THIS ANTENNA IS AVAILABLE IN THE FOLLOWING VERSIONS:

AP17086 - Antenna.
AP17186 - Antenna with 5 m RG58 95% mesh coaxial cable kit with mini UHF connector.
AP17286 - Antenna with 5 m RG58 95% mesh coaxial cable kit with male BNC connector.

ASSEMBLY





PERFORATING CLAWS

(Patented)

The exclusive system of piercing claws makes it easy to install in vehicles that have vehicles that have a thermo-acoustic or structural lining on the roof, with a 16mm hole that doesn't require scraping in order to obtain the necessary grounding for it to work properly.

PAT : MU 9001207-0

TECHNICAL DATA

WARNING

In all the measurements for cutting the rod in the table below, you must take into account the fitting on the ferrule. In this model you should add + 30mm, as the measurements given are a reference with the antenna mounted, as shown in the figur e opposite.

SPECIFICATIONS

FREQUENCY	133 - 530 MHz
MAXIMUM POWER	100 W
IMPEDANCY	50 Ω
VSWR	≤1 ,5:1
GAIN	2,15 dBi
HEIGHT	520 mm
WEIGHT	210 g

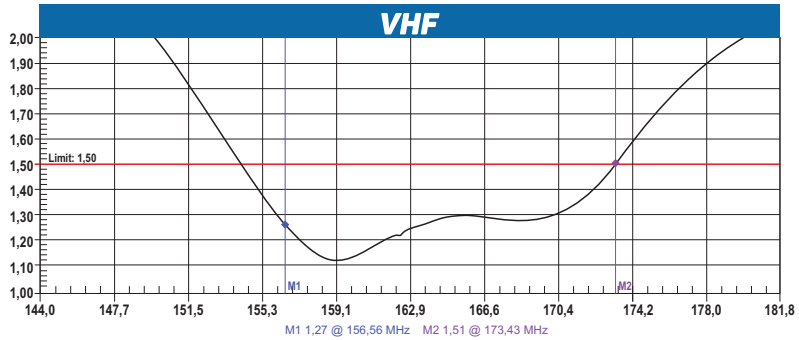
SETTING TABLE

Frequency (MHz)	Length (+30mm)
133 - 149 MHz	422 mm
149 - 162 MHz	383 mm
162 - 174 MHz	340 mm
174 - 200 MHz	290 mm
200 - 230 MHz	250 mm
230 - 280 MHz	200 mm
280 - 320 MHz	160 mm
320 - 370 MHz	130 mm
370 - 430 MHz	100 mm
430 - 470 MHz	70 mm
470 - 530 MHz	50 mm

IMPORTANT

The measurements in the adjustment table are for reference only and may change depending on the installation site. The antenna should be installed on a flat metal area with a radius of at least 1/4 wave plus 5% at the desired frequency. To get the best result, always use a VSWR meter (WATIMETER). The reflected signal must not exceed 1.5:1 or 4% of the direct power.

EXAMPLE: Graph of an Ap17086 antenna set at 165 MHz.



To adjust the antenna it is necessary to use a 2mm Allen key - (not included in the product).

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INDÚSTRIA BRASILEIRA

+55 (18) 2104-4444 contato@steelbras.com.br
Steelbras Antenas Industria e Comercio Ltda
08.637.511/0001-20

Avenida Cidade Fukuyama, 725 - 19064-210
Presidente Prudente - SP | Brasil
www.steelbras.com.br
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