

ARTICULATED VHF DISGUISED MOBILE ANTENNA
1/4 WAVE WITH GPS 132-512 MHZ

AP33186 - AP33686 - AP33869



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ARTICULATED VHF DISGUISED MOBILE ANTENNA

1/4 WAVE WITH GPS 132-512 MHZ

This disguised antenna was designed to operate as a mobile radio transceiver station at frequencies from 132 to 512 MHz (VHF band 1/4) or from 360 to 530 MHz (UHF band 5/8), for use on unmarked vehicles that must not be recognized as using a radio communication antenna. Discreet, with a design similar to FM antennas but with high efficiency in RF transmission and reception. It has a high-deformation sealing rubber resistant to ozone, weather and chemicals, and gold-plated internal components. If the vehicle already has an FM antenna hole, it can be installed in the same spot using the existing hole. With the spring, the assembly gains greater mechanical strength, avoiding damage under severe use and delivering excellent cost-effectiveness.

This antenna is available in the following versions:

AP33186 - 5m coaxial cable 95% shield with male Mini UHF termination.

AP33686 - 5m coaxial cable 95% shield with male BNC termination.

AP33869 - 5m coaxial cable 95% shield with male UHF termination.

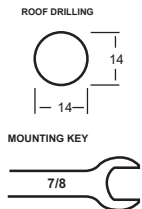
PIERCING CLAWS (patente requerida)

The exclusive piercing-claw system makes installation easier on vehicles with sheet metal up to 1,5mm that have thermal, acoustic or structural roof lining, with no need for scraping to obtain the grounding required for proper operation.



Piercing Claws

INTEGRATED GPS



IMPORTANT

The measurements in the tuning table are for reference only and may vary depending on the installation site. The antenna must be installed on a flat metal surface with a radius of at least 1/4 wave plus 5% at the desired frequency. For best results, use

always meter of VSWR, (WATTMETER). The reflected signal must not exceed 1,5:1 or 4% of the forward power.

RF SPECIFICATIONS

FREQUENCY	132 - 320 MHz (VHF) 380 - 530 MHz (UHF)
MAXIMUM POWER	100 W
IMPEDANCE	50 Ω
VSWR	≤ 1,5:1
GAIN	2,15 dBi (VHF) 5,15 dBi (UHF)
CABLE	RG58 95% 5 M
HEIGHT	625 mm
WEIGHT	270 g

GPS

FREQUENCY	1575,42 ± 3 MHz
MAXIMUM POWER	2,2 - 5 V
VSWR	≤ 1,5:1
IMPEDANCE	50 Ω
LNA GAIN	28 dB
CURRENT	5 - 15 mA
CABLE	RG174 85% 5 M
CONNECTOR	MALE SMA

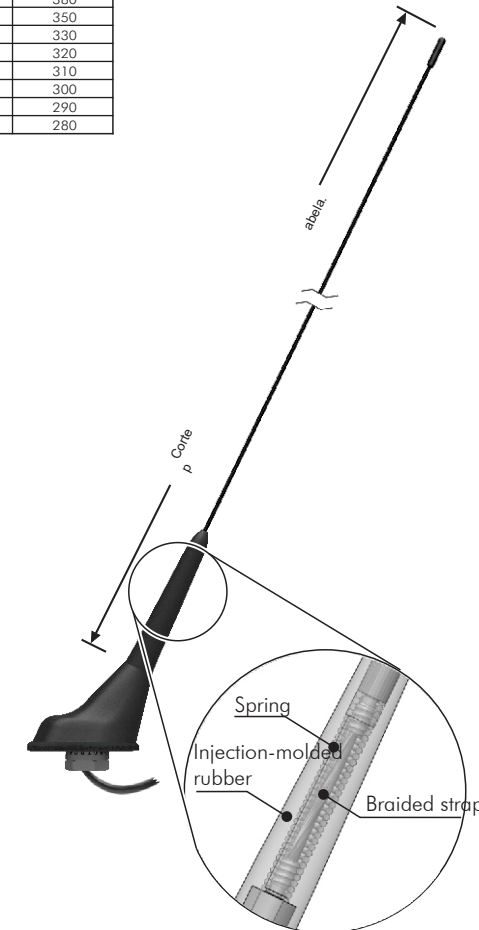
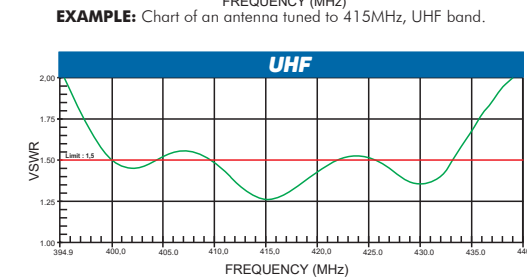
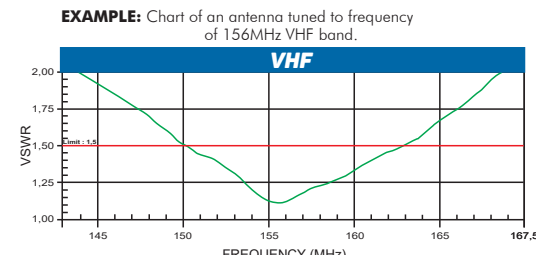
VHF CUTTING TABLE 1/4

Frequency (MHz)	Length (L mm)
132 MHz	500 mm
134 MHz	490 mm
136 MHz	480 mm
138 MHz	470 mm
140 MHz	463 mm
142 MHz	456 mm
144 MHz	450 mm
145 MHz	444 mm
146 MHz	437 mm
147 MHz	430 mm
148 MHz	420 mm
150 MHz	410 mm
152 MHz	407 mm
154 MHz	403 mm
156 MHz	400 mm
158 MHz	396 mm
160 MHz	393 mm
162 MHz	390 mm
164 MHz	385 mm
166 MHz	380 mm
168 MHz	375 mm
170 MHz	370 mm
172 MHz	365 mm
174 MHz	360 mm
176 MHz	353 mm
178 MHz	346 mm
180 MHz	340 mm

Frequency (MHz)	Length (L mm)
182 MHz	334 mm
184 MHz	328 mm
186 MHz	321 mm
188 MHz	316 mm
190 MHz	310 mm
192 MHz	308 mm
194 MHz	306 mm
196 MHz	304 mm
198 MHz	302 mm
200 MHz	300 mm
202 MHz	298 mm
204 MHz	296 mm
206 MHz	294 mm
208 MHz	292 mm
210 MHz	290 mm
220 MHz	280 mm
230 MHz	260 mm
240 MHz	250 mm
250 MHz	240 mm
260 MHz	220 mm
270 MHz	200 mm
280 MHz	180 mm
290 MHz	160 mm
300 MHz	150 mm
310 MHz	140 mm
320 MHz	130 mm

UHF CUTTING TABLE 5/8

Frequência (MHz)	Comprimento (L mm)
360	540
370	520
380	500
390	480
400	460
410	450
420	440
430	428
440	414
450	400
460	380
470	350
480	330
490	320
500	310
510	300
520	290
530	280



A 2mm Allen key is required to adjust the antenna (not included).