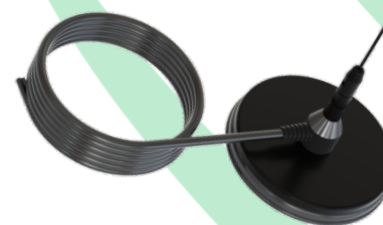


VHF/UHF MOBILE ANTENNA 1/4 WAVE MAG BASE

AP4046



Av. Cidade Fukuyama, 725 - CEP 19064-210 - Presidente Prudente - SP

www.steelbras.com.br



24/09/2024



steelbras[®]
soluções em antenas

VHF/UHF MOBILE ANTENNA 1/4 WAVE MAG BASE

TECHNICAL DATA

The **AP4046** is a VHF/UHF 1/4 wave antenna of sturdy construction with a built-in magnetic base. It was designed to operate from 132 to 500 MHz. It is made of stainless steel, high-quality zamac, polished brass and UV-protected injection-molded polymer. The cable is built directly into the antenna base. On top of all this, it has a galvanized steel magnetic base with black epoxy paint, whose magnetic pull can hold up to 14Kg. A non-slip UV-protected rubber completes the base assembly.

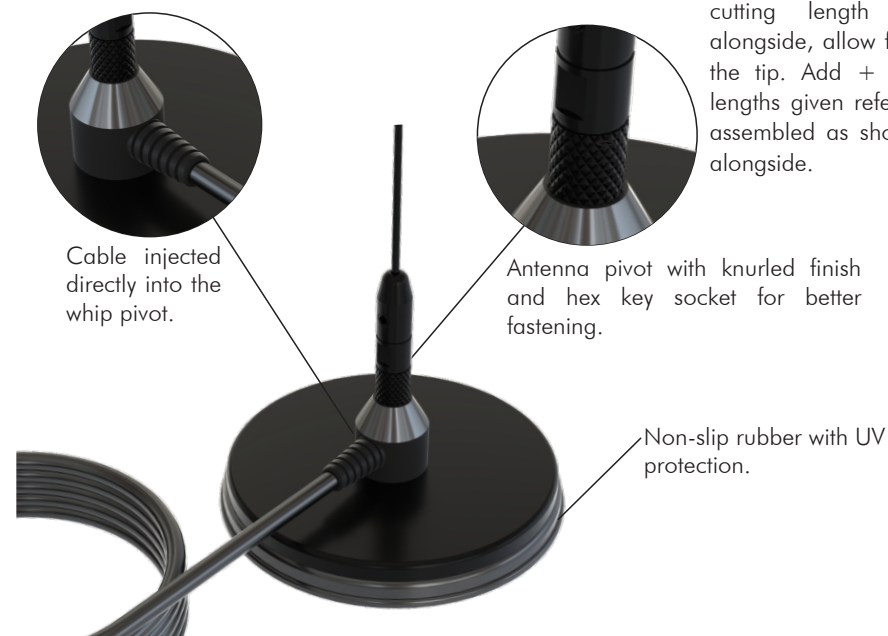
SPECIFICATIONS

FREQUENCY	132 - 500 MHz
MAXIMUM POWER	100 W
IMPEDANCE	50 Ω
VSWR	≤ 1,5:1
GAIN	2,15 dBi
HEIGHT	573 mm
CABLE	5 m

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 frequency desired. *For best results, always use a VSWR meter (WATTMETER). The reflected signal must not exceed 1,5:1 or 4% of the forward power.*

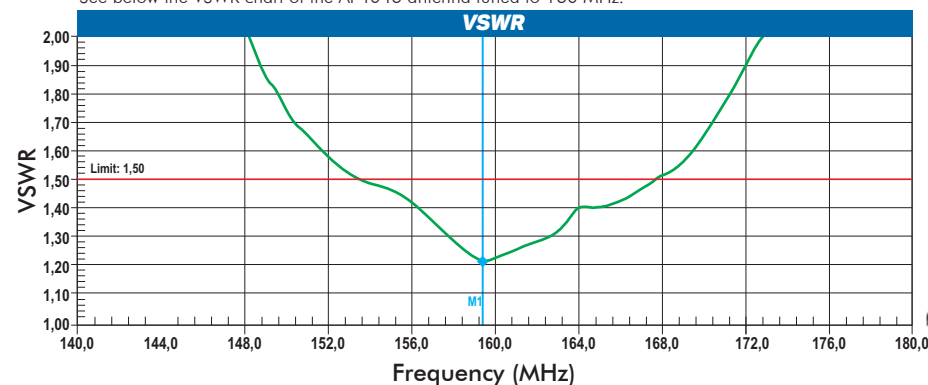
ATTENTION: For every whip cutting length in the table alongside, allow for the fitting into the tip. Add + 19 mm, as the lengths given refer to the antenna assembled as shown in the figure alongside.



Frequency (MHz)	Length (L+19 mm)	Frequency (MHz)	Length (L+19 mm)	Frequency (MHz)	Length (L+19 mm)
132 MHz	501 mm	178 MHz	346 mm	320 MHz	180 mm
134 MHz	482 mm	180 MHz	344 mm	330 MHz	170 mm
136 MHz	476 mm	182 MHz	342 mm	340 MHz	164 mm
138 MHz	471 mm	184 MHz	338 mm	350 MHz	159 mm
140 MHz	462 mm	186 MHz	334 mm	360 MHz	150 mm
142 MHz	454 mm	188 MHz	329 mm	370 MHz	142 mm
144 MHz	444 mm	190 MHz	326 mm	380 MHz	138 mm
146 MHz	437 mm	192 MHz	323 mm	390 MHz	135 mm
148 MHz	430 mm	194 MHz	312 mm	400 MHz	131 mm
150 MHz	421 mm	196 MHz	309 mm	410 MHz	128 mm
152 MHz	416 mm	198 MHz	306 mm	420 MHz	125 mm
154 MHz	413 mm	200 MHz	300 mm	430 MHz	122 mm
156 MHz	410 mm	210 MHz	291 mm	440 MHz	119 mm
158 MHz	405 mm	220 MHz	277 mm	450 MHz	117 mm
160 MHz	400 mm	230 MHz	262 mm	460 MHz	114 mm
162 MHz	393 mm	240 MHz	250 mm	470 MHz	112 mm
164 MHz	389 mm	250 MHz	241 mm	480 MHz	110 mm
166 MHz	385 mm	260 MHz	232 mm	490 MHz	107 mm
168 MHz	378 mm	270 MHz	216 mm	500 MHz	90 mm
170 MHz	372 mm	280 MHz	208 mm		
172 MHz	366 mm	290 MHz	198 mm		
174 MHz	356 mm	300 MHz	188 mm		
176 MHz	351 mm	310 MHz	184 mm		

EXAMPLE:

See below the VSWR chart of the AP4046 antenna tuned to 160 MHz.



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

Cut the stainless rod to the length required for the desired frequency according to the table.