

VHF MOBILE ANTENNA 5/8 WAVE EVOLUTION WITH SPRING WHIP BASE

AP50189 - AP51189 - AP52189 - AP53189



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VHF MOBILE ANTENNA 5/8 WAVE EVOLUTION WITH SPRING WHIP BASE

TECHNICAL DATA

It is a VHF antenna with a high-efficiency base coil and sturdy construction. It was designed to operate in the 2 meter band (132-174 MHz). It is made of stainless steel, high-quality zamac and chrome-plated brass, with a gold-plated center pin and a silicone washer that keeps moisture out between the connector and the antenna, and an international-standard connection for easy mounting on brackets with NMO (WHIP) connectors. On top of all this, it has a spring at the base for greater impact resistance, offering a product with excellent cost-effectiveness.

SPECIFICATIONS

FREQUENCY	132 - 174 MHz
MAXIMUM POWER	200 WATTS
IMPEDANCE	50 OHMS
VSWR	$\leq 1,5:1$
GAIN	5,15 DBI
HEIGHT	1390 MM
WEIGHT	249 G



EXAMPLE: VSWR chart of an antenna tuned to 162 MHz.

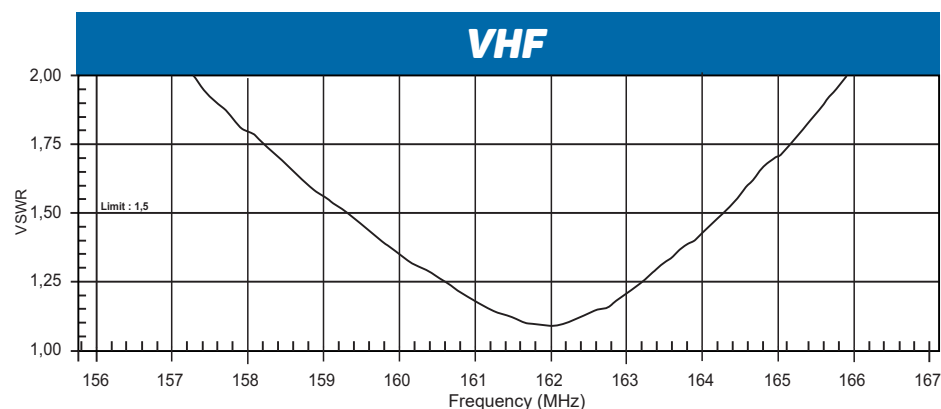


Chart obtained with the antenna installed in the center of a 1,4m x 1,1m metal plate.

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. ATTENTION: For every whip cutting length in the table alongside, allow for the fitting into the tip by adding + 25mm, as the lengths given refer to the antenna assembled as shown in the figure alongside.

For best results, always use a VSWR meter (WATTMETER). VSWR may vary by up to 10%, resulting in a VSWR of 1,65:1.

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

This antenna is available in the following

versions: AP50189 -

AP51189 - Antenna + Cable kit (RG58 95% shield * 5 meters).

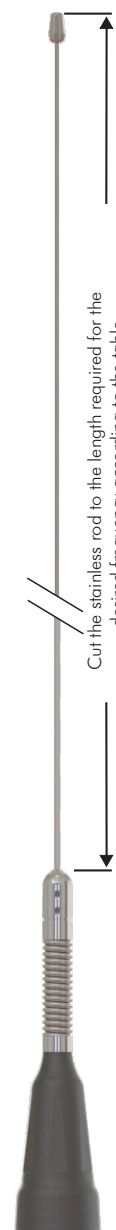
AP52189 - Antenna + Cable kit (RG58 95% shield * 5 meters) + Male BNC Connector.

AP53189 - Antenna + Cable kit (RG58 95% shield * 5 meters) + Mini UHF Connector.

CUTTING TABLE

Frequency (MHz)	Length (L mm)
132 MHz	1210 mm
134 MHz	1193 mm
136 MHz	1175 mm
138 MHz	1157 mm
140 MHz	1140 mm
142 MHz	1122 mm
144 MHz	1104 mm
145 MHz	1087 mm
146 MHz	1069 mm
147 MHz	1051 mm
148 MHz	1034 mm
150 MHz	1017 mm
152 MHz	998 mm
154 MHz	981 mm
156 MHz	964 mm
158 MHz	946 mm
160 MHz	929 mm
162 MHz	910 mm
164 MHz	894 mm
166 MHz	875 mm
168 MHz	858 mm
170 MHz	841 mm
172 MHz	822 mm
174 MHz	805 mm

FREQUENCIES FOR AMATEUR RADIO



¹Steelbras Antenas reserves the right to make technical changes to the data in its datasheets without prior notice.
²This antenna does not require ANATEL Certification and Approval, under Act No. 7280, of 26 September 2020.