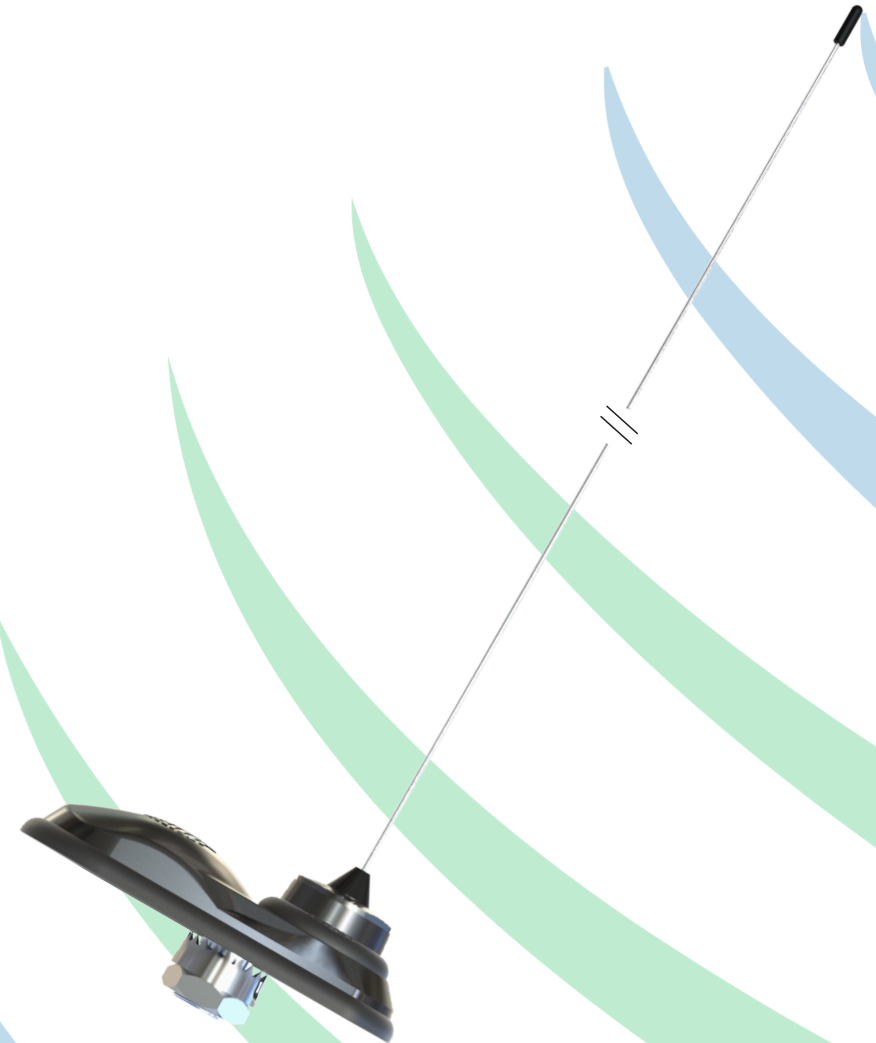


**VHF/UHF MOBILE ANTENNA 1/4 WAVE INTEGRATED
NMO BASE MALE MINI UHF + GPS MALE SMA**

AP5505



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

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VHF/UHF MOBILE ANTENNA 1/4 WAVE INTEGRATED NMO BASE MALE MINI UHF + GPS MALE SMA

TECHNICAL DATA

The AP5505 is a VHF/UHF 1/4 Wave WHIP mobile antenna that combines sturdiness and efficiency in a discreet design, ideal for public safety, industry and transport applications. Made of high-quality Zamac and stainless steel, its structure resists weather, ozone and chemicals, with epoxy paint finish. The product also has an NMO base integrated with the GPS system, making installation easier with its single-hole mounting, which reduces vehicle damage, installation time and visual impact. It also has an efficient sealing system that prevents moisture ingress, ensuring reliable operation in the VHF and UHF bands.

RF SPECIFICATIONS

FREQUENCY	132 - 900 MHz
MAXIMUM POWER	100 WATTS
IMPEDANCE	50 OHMS
VSWR	≤ 1,5:1
GAIN	0 DB / 2,15 DBI
HEIGHT	625 MM
WEIGHT	602 G
TERMINATION	MALE MINI UHF

GPS SPECIFICATIONS

FREQUENCY	1575,2 ± 3 MHz
VSWR	≤ 1,5:1
LNA GAIN	28 DB
POLARIZATION	RHCP
VOLTAGE	2,2 - 5 V
CURRENT	5 - 15 MA
IMPEDANCE	50 OHMS
CABLE	RG174 - 5 M
TERMINATION	MALE SMA
HEIGHT	23 MM
WEIGHT	562 G

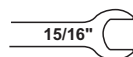
PIERCING CLAWS (Patented)

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.



PAT : MU 9001207-0

MOUNTING KEY



ROOF DRILLING



INSTALLATION PRECAUTIONS:

- Remove burrs from drilling the roof to avoid damaging the cables. - Apply a coat of phosphating primer to the hole to prevent rust.

CUTTING TABLE

Frequency (MHz)	Length (L mm)
132	510
135	500
137	490
140	484
143	478
145	474
150	463
152	459
155	453
160	441
163	434
166	423
170	408
175	398
178	389
183	379
187	370
193	360
198	349
206	338
212	328
217	317
224	306
232	296
240	286

Frequency (MHz)	Length (L mm)
250	274
258	264
268	255
279	245
289	236
302	224
315	215
332	204
345	196
365	183
383	175
407	164
420	158
455	145
485	136
550	118
600	109
640	100
657	94
697	80
734	78
770	75
800	73
850	70
867	67
900	62

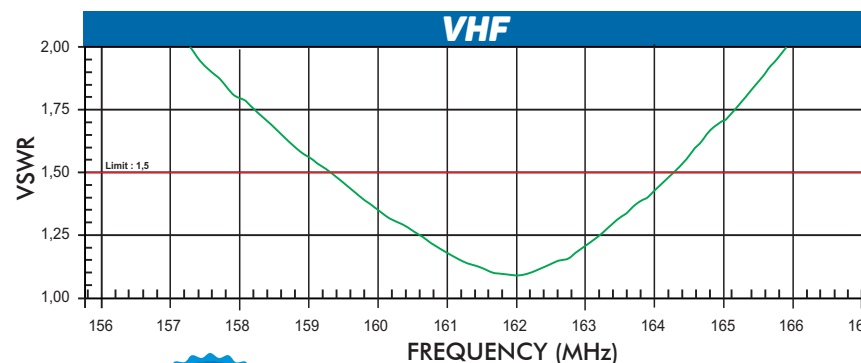
IMPORTANT

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

EXAMPLE:

See below the VSWR chart of a AP55005 antenna tuned to 162 MHz.



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

