

DUAL BAND INTEGRATED SHARK MOBILE ANTENNA - GPS/WI-FI

AP22002



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BRASILEIRA

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soluções em antenas

DUAL BAND INTEGRATED SHARK MOBILE ANTENNA - GPS/WI-FI

The AP22002 is a multi-function antenna operating in the dual band (UHF and VHF), GPS and WI-FI bands. The shark style, with multiple functions in a single antenna, has a discreet design suited to public safety, industry and transport applications, offering sturdiness and efficiency. Its single-hole mounting makes installation easier and reduces vehicle damage, installation time, cost and visual impact, while protecting the vehicle's resale value. It has an efficient sealing system that keeps moisture from impairing its operation, and its flexible, articulated rod allows the antenna to be installed on the front or rear of vehicle roofs, adjusting the tilt angle for best performance relative to the roof ground plane.

INSTALLATION

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

PIERCING CLAWS

KEY FOR MOUNTING

15/16"

DRILLING OF THE ROOF

11/16"
18mm



IMPORTANT

During installation, remove burrs from drilling the roof to avoid damaging the cables. Then apply a coat of phosphating primer to the freshly drilled hole to prevent rust.

Cable and termination are assembled according to project requirements.

TECHNICAL DATA

SPECIFICATIONS

VHF		
VHF FREQUENCY	166 - 174 MHz	
UHF FREQUENCY	820 - 870 MHz	
MAXIMUM POWER	100 W	
IMPEDANCE	50 Ω	
VSWR	≤ 1,5:1	
VHF GAIN	2,15 dBi	
UHF GAIN	5,15 dBi	
HEIGHT	345 mm	
WEIGHT	600 g	

SPECIFICATIONS

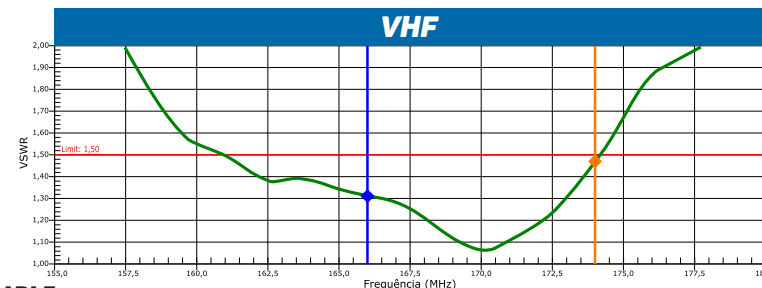
GPS	
FREQUENCY	1575,42 ± 3 MHz
POLARIZATION	Circular RHCP
VOLTAGE	2,2 - 5V
VSWR	1,5:1
LNA GAIN	28 DB
CURRENT	5 - 15 mA
IMPEDANCE	50 Ω
WI-FI	
FREQUENCY	2,3 - 2,5 AND 4,9 - 6 GHz
GAIN	4DBI (2,3 - 2,5GHZ) AND 6DBI (4,9 - 6 GHz) Vertical
IMPEDANCE	50 Ω
VSWR	50 Ω
MAXIMUM POWER	25 W (MAXIMUM)

IMPORTANT

Factory-adjustable within the 166 to 174 MHz range, with an operating bandwidth of 8 MHz at $VSWR \leq 1,5:1$, which may vary by up to 10% depending on the installation site.

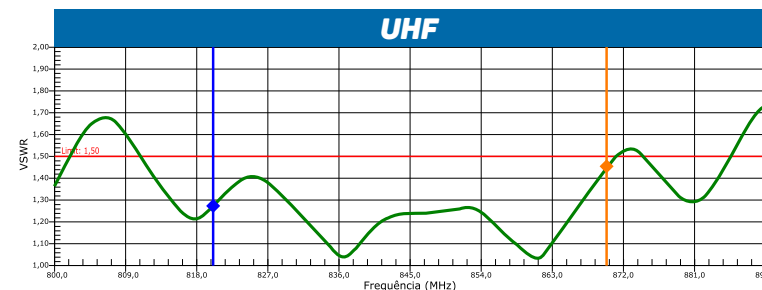
EXAMPLE:

See below the VSWR chart of a AP22002 antenna tuned from 166 to 174 MHz.



EXAMPLE:

See below the VSWR chart of a AP22002 antenna tuned from 820 to 870 MHz.



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.