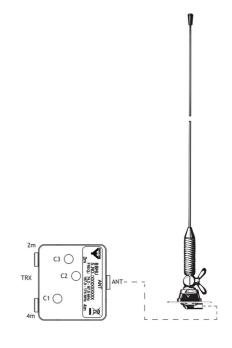


$1\!\!/_{\!\!4}$ λ Broad-Band Mobile Antenna for the 80 MHz and 150 MHz BOS Band

DESCRIPTION

- > Sturdy ¼ λ mobile antenna in professional industry standard quality.
- Factory-adjusted broadband matching unit for 74.2 77.7 MHz / 84 87.5 MHz and 167.5-169.5 MHz / 172 - 174 MHz
- Tuning not necessary but can be fine-tuned if needed.
- > Separate broadband matching unit for time-saving mounting.
- Necessary cable length between the matching unit and the antenna mount: 100 mm (FME junction cable included).
- > Stainless steel Z-mount with socket joint and wing screw.
- Simple mounting exclusively with access from the outside.
- FME antenna cable for both 80 MHz and 150 MHz BOS can be mounted directly in the matching unit without special antenna connectors.



ORDERING

Model	Product No.
ML 1-ZR/BOS2 BBMU	130000629

SPECIFICATIONS

Electrical	
Model	ML 1-ZR/BOS2 BBMU
Frequency	Factory adjusted: 74.2 - 77.7 MHz / 84 - 87.5 MHz and 167.5-169.5 MHz / 172 - 174 MHz
Antenna Type	Broad-Band Mobile whip Antenna
Max. Input Power	25 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	74.2 - 77.7 MHz / 84.0 - 87.5 MHz: = 2.0:1 167.5-169.5 MHz / 172 - 174 MHz: = 2.25:1
Gain (EIA RS-329-1)	0 dB

echanical	
Materials	Whip: Stainless steel, Chromed brass Spring: Stainless steel Mount: Chromed brass Weather- and shockproof plastics Stainless steel
Installation Torque	7.5 +/- 1 Nm
Colour	Black / Metallic Silver
Dimensions	Antenna : Approx. 1 m Matching unit : +50 x +50 x 20 mm FME junction cable : 100 mm
Mounting	21 mm dia. hole mounting from the outside 22 mm dia. hole mounting from the inside

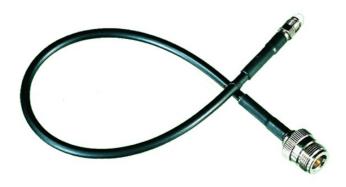


ADDITIONAL DATA

Hat screw option:



For antenna delivered with hat screw instead of wing screw add a K to the antenna designation.



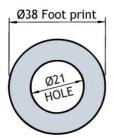
SUNDRIES: For connection of special cables (RG 213, H2000, RG 223 etc.) to the matching unit the jumper cable JPC 40/RG 58/FN can be used. This is a 40 cm long RG 58 cable with one FME connector and one N-female connector.

INSTALLATION (IF MOUNTED FROM THE OUTSIDE)

- Equip the matching unit with FME antenna cables and the supplied 100 mm junction cable.
- Draw the 100 mm junction cable through the antenna hole from the outside (e.g. with a drawstring between the car roof and the dome).
- The Z-mount is particularly well suited for mounting on car-roofs because of its ability to be installed exclusively with access from the outside. The Z-Mount for roof thickness from 2 mm to 7.5 mm must be mounted from the inside. However, the antenna can be installed anywhere on the car, as the Z-mount is equally well suited for mounting on e.g. trunk or wing.
- 🄰 Attach the cable to the Z-mount and install the mount from the outside following the below given instructions.

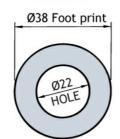
1. INSTALLATION DIMENSIONS

Z-MOUNT



Build- in depth: 10.5 mm Mounting from the outside

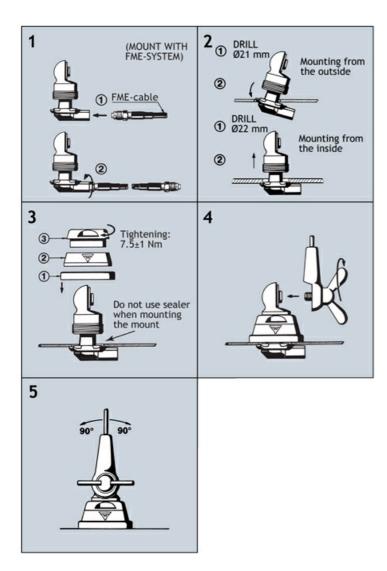
Z-MOUNT



Build- in depth: 10.5 mm Mounting from the inside

2. INSTALLATION STEPS





Do not use sealer on rubber gasket or other places.

3. TUNING

The ML 1-ZR/BOS2 BBMU is factory-tuned to the following

80 MHz BOS area: LOW: 74.2 - 77.7 MHz HIGH: 84 - 87.5 MHz

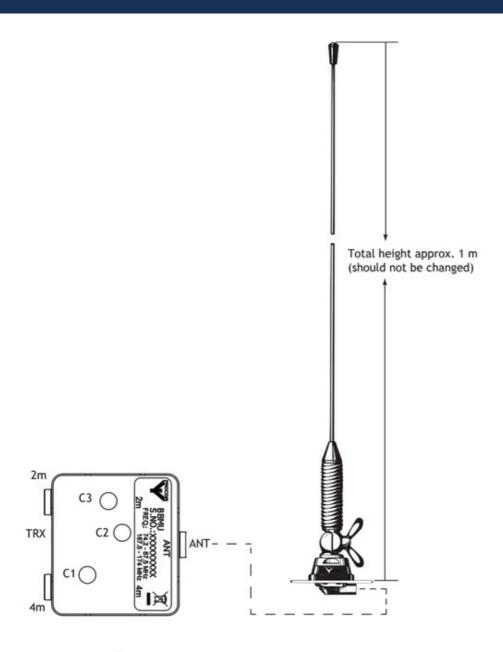
150 MHz BOS area: LOW: 167.5 - 169.5 MHz HIGH: 172 - 174 MHz

Fine-tuning or frequency change can if needed be done as follows:

Adjustment of the BBMU BOS2 by means of SWR 4000

- Fine tune C1 for adjusting the 4m band.
 Fine tune C2 and C3 for adjusting the 2m band.





100 mm FME cable (included in the supply of the broad-band antenna). Importent: The cable length should not be changed!

SWR 4000 Analyzer with built-in signal generator and graphic display range of measurement 30 - 2700 MHz.





Z-Mount

