

colinear 4 dB Mobile Antenna for the 450 MHz Band

DESCRIPTION

- 4 dB mobile antenna with colinear, stainless steel whip.
- Stainless steel X-mount with M6-thread whip-fastening system.
- Models available with X-mount (oblong), CX-mount (circular), XG-Combi mount (oblong) with GPS and MM-mount (magnetic).
- Choice between mounts with FME-connection (without cable) or models with permanently attached 4 m cable with FME connector.
- Choose between general purpose tunable models and permanently tuned models for cellular systems.
- Easily removable whip for car wash.
- GPS-antenna for fixed installations.
 - Full hemispherical coverage.
 - Built-in high-gain, low-noise amplifier.
 - Right-Hand Circular Polarization (RHCP).
 - 2.85 V - 5 V supply voltage (typical 3 V).



SPECIFICATIONS

| Electrical | |
|---------------------|---|
| Model | MU 4-X/..., MU 4-CX/..., MU 4-XG/..., MU 4-MM/... |
| Frequency | Models within 380 - 470 MHz |
| Antenna Type | Collinear stainless steel mobile whip antenna |
| Polarisation | Vertical |
| Impedance | 50 Ω |
| Maximum Input Power | 100 W |
| Bandwidth | > 15 MHz @ SWR = 1.5 > 30 MHz @ SWR < 2.5 |
| Gain (EIA RS-329-1) | 4 dB |

| Mechanical | |
|---------------------|---|
| Materials | Whip: Black-chromed stainless steel Black-chromed brass Mount: Black-chromed brass Weather- and shockproof plastics Stainless steel |
| Installation Torque | 4 +/- 1 Nm |
| Colour | Black |
| Height | 59 mm / 2.32 in. |
| Weight | X-version: Approx. 120 g XP4-version: Approx. 290 g CX-version: Approx. 155 g CXP4-version: Approx. 290 g XG-version: Approx. 170 g XGP4-version: Approx. 310 g MM-version: Approx. 380 g |

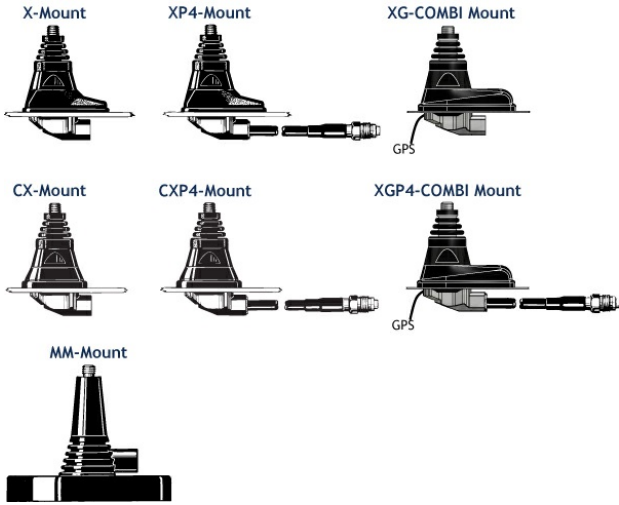
ORDERING

| Type | Product No. | Description | Frequency |
|----------------|-------------|--|---------------|
| MU 4-MM/f | 130000909 | | 406...430 MHz |
| MU 4-MM/CEL2 | 130000910 | | 440 - 455 MHz |
| MU 4-MM/CEL3 | 130000911 | | 425 - 440 MHz |
| MU 4-MM/CEL4 | 130000912 | | 414 - 430 MHz |
| MU 4-MM/CEL1 | 130000913 | | 450 - 470 MHz |
| MU 4-MM/h | 130000914 | | 440...470 MHz |
| MU 4-MM/l | 130000915 | | 420...450 MHz |
| MU 4-MM/s | 130000916 | | 380...410 MHz |
| MU 4-CX/f | 130000923 | CX-mount (circular)with FME | 406...430 MHz |
| MU 4-CXP4/f | 130000925 | CXP4-mount (circular)with 4 m cable andFME-connector | 406...430 MHz |
| MU 4-CX/h | 130000928 | CX-mount (circular)with FME | 440...470 MHz |
| MU 4-CXP4/h | 130000930 | CXP4-mount (circular)with 4 m cable andFME-connector | 440...470 MHz |
| MU 4-CX/l | 130000934 | CX-mount (circular)with FME | 420...450 MHz |
| MU 4-CXP4/l | 130000936 | CXP4-mount (circular)with 4 m cable andFME-connector | 420...450 MHz |
| MU 4-CX/CEL2 | 130000938 | CX-mount (circular)with FME | 440 - 455 MHz |
| MU 4-CX/CEL1 | 130000943 | CX-mount (circular)with FME | 450 - 470 MHz |
| MU 4-CX/CEL3 | 130000940 | CX-mount (circular)with FME | 425 - 440 MHz |
| MU 4-CXP4/CEL1 | 130000946 | CXP4-mount (circular)with 4 m cable andFME-connector | 450 - 470 MHz |
| MU 4-CXP4/CEL2 | 130000939 | CXP4-mount (circular)with 4 m cable andFME-connector | 440 - 455 MHz |
| MU 4-CXP4/CEL4 | 130000949 | CXP4-mount (circular)with 4 m cable andFME-connector | 414 - 430 MHz |
| MU 4-CX/CEL4 | 130000937 | CX-mount (circular)with FME | 414 - 430 MHz |
| MU 4-CX/s | 130000953 | CX-mount (circular)with FME | 380...410 MHz |
| MU 4-CXP4/s | 130000955 | CXP4-mount (circular)with 4 m cable andFME-connector | 380...410 MHz |
| MU 4-X/f | 130000922 | X-mount (oblong)with FME | 406...430 MHz |
| MU 4-XP4/f | 130000924 | XP4-mount (oblong)with 4 m cable andFME-connector | 406...430 MHz |
| MU 4-X/h | 130000927 | X-mount (oblong)with FME | 440...470 MHz |
| MU 4-XP4/h | 130000929 | XP4-mount (oblong)with 4 m cable andFME-connector | 440...470 MHz |
| MU 4-X/l | 130000933 | X-mount (oblong)with FME | 420...450 MHz |

| Type | Product No. | Description | Frequency |
|----------------|-------------|--|---------------|
| | | connector | MHz |
| MU 4-X/CEL2 | 130000941 | X-mount (oblong)with FME | 440 - 455 MHz |
| MU 4-X/CEL1 | 130000942 | X-mount (oblong)with FME | 450 - 470 MHz |
| MU 4-X/CEL3 | 130000944 | X-mount (oblong)with FME | 425 - 440 MHz |
| MU 4-XP4/CEL1 | 130000945 | XP4-mount (oblong)with 4 m cable andFME-connector | 450 - 470 MHz |
| MU 4-XP4/CEL2 | 130000947 | XP4-mount (oblong)with 4 m cable andFME-connector | 440 - 455 MHz |
| MU 4-XP4/CEL4 | 130000950 | XP4-mount (oblong)with 4 m cable andFME-connector | 414 - 430 MHz |
| MU 4-X/CEL4 | 130000951 | X-mount (oblong)with FME | 414 - 430 MHz |
| MU 4-X/s | 130000952 | X-mount (oblong)with FME | 380...410 MHz |
| MU 4-XP4/s | 130000954 | XP4-mount (oblong)with 4 m cable andFME-connector | 380...410 MHz |
| MU 4-CXP4/CEL3 | 130000948 | CXP4-mount (circular)with 4 m cable andFME-connector | 425 - 440 MHz |
| MU 4-XP4/CEL3 | 130001474 | XP4-mount (oblong)with 4 m cable andFME-connector | 425 - 440 MHz |
| MU 4-CX/CEL5 | 130001612 | CX-mount (circular)with FME | 380 - 410 MHz |
| MU 4-CXP4/CEL5 | 130001613 | CXP4-mount (circular)with 4 m cable andFME-connector | 380 - 410 MHz |
| MU 4-X/CEL5 | 130001610 | X-mount (oblong)with FME | 380 - 410 MHz |
| MU 4-XP4/CEL5 | 130001611 | XP4-mount (oblong)with 4 m cable andFME-connector | 380 - 410 MHz |
| MU 4-MM/CEL5 | 130001614 | | 380 - 410 MHz |
| MU 4-XG/s | 130002033 | | 380...410 MHz |
| MU 4-XG/f | 130002034 | | 406...430 MHz |
| MU 4-XGP4/s | 130002035 | | 380...410 MHz |
| MU 4-XGP4/f | 130002036 | | 406...430 MHz |
| MU 4-XG/l | 130002093 | | 420...450 MHz |
| MU 4-XG/h | 130002094 | | 440...470 MHz |
| MU 4-XG/CEL1 | 130002095 | | 450 - 470 MHz |
| MU 4-XG/CEL2 | 130002096 | | 440 - 455 MHz |
| MU 4-XG/CEL3 | 130002097 | | 425 - 440 MHz |
| MU 4-XG/CEL4 | 130002098 | | 414 - 430 MHz |
| MU 4-XG/CEL5 | 130002099 | | 380 - 410 MHz |
| MU 4-XGP4/CEL1 | 130002100 | | 450 - 470 MHz |
| MU 4-XGP4/CEL2 | 130002101 | | 440 - 455 MHz |
| MU 4-XGP4/CEL3 | 130002102 | | 425 - 440 MHz |
| MU 4-XGP4/CEL4 | 130002103 | | 414 - 430 MHz |
| MU 4-XGP4/CEL5 | 130002104 | | 380 - 410 MHz |
| MU 4-XGP4/l | 130002105 | | 420...450 MHz |
| MU 4-XGP4/h | 130002106 | | 440...470 MHz |

ADDITIONAL DATA

The whip is compatible with all below mounts

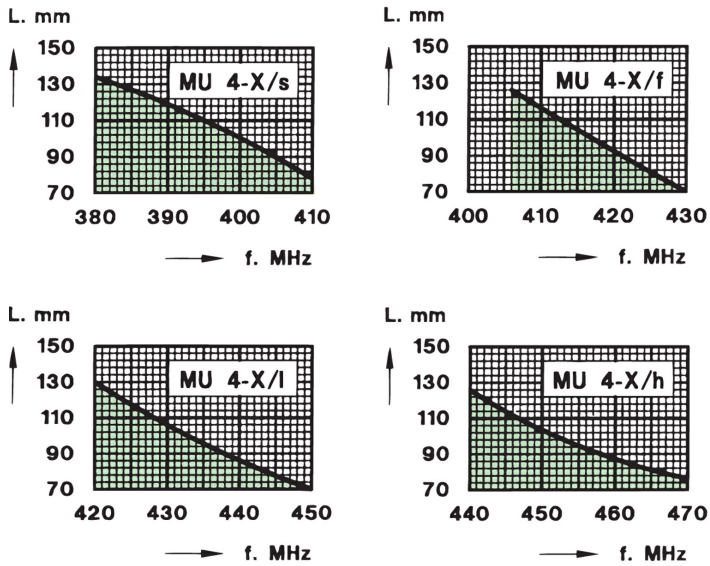


INSTALLATION AND ASSEMBLY INSTRUCTIONS

Please refer to the data sheet of each individual mount to find the installation and assembly instructions.

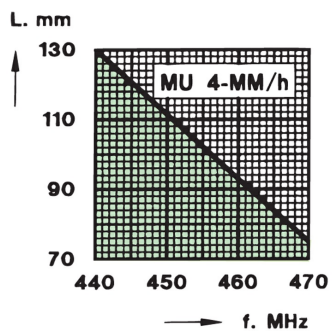
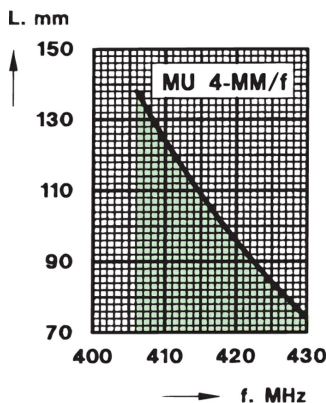
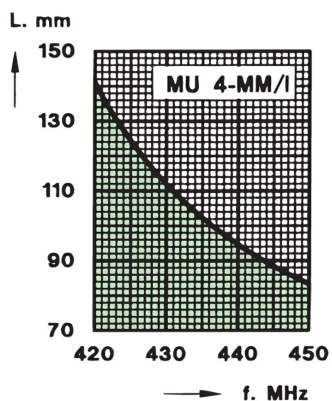
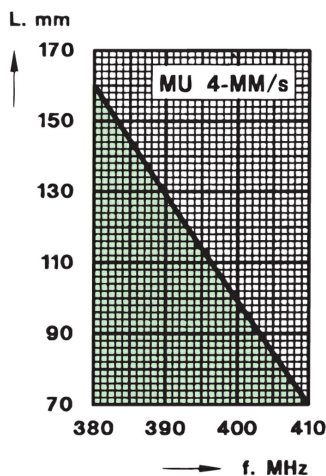
TUNING

The diagrams apply to all models in the series



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PLEASE NOTE

For safety reasons:
When using the MU 4-MM, car speed must not exceed 120 km/h.