

# MU 4-X/..., MU 4-CX/..., MU 4-XG/..., MU 4-MM/...

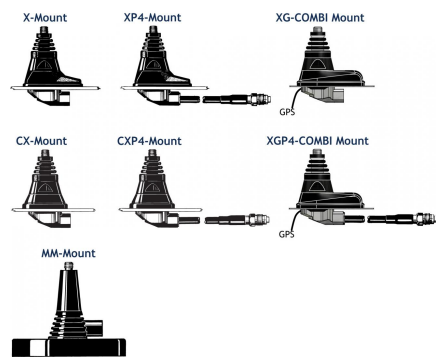
## Collinear 4 dB Mobile Antenna for the 450 MHz Band

### DESCRIPTION

- 4 dB mobile antenna with collinear, 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).



All whips are compatible with all mounts



### SPECIFICATIONS

ELECTRICAL	
MODEL	MU 4-X/..., MU 4-CX/..., MU 4-XG/..., MU 4-MM/...
ANTENNA TYPE	Collinear stainless steel mobile whip antenna
FREQUENCY	Models within 380 – 470 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	4 dB (acc. to EIA RS-329-1)
BANDWIDTH	> 15 MHz @ SWR ≤ 1.5 > 30 MHz @ SWR < 2.5
SWR	≤ 1.3 @ f. res.
MAX. POWER	100 W
MECHANICAL	
MATERIALS	<b>Whip:</b> Black-chromed stainless steel Black-chromed brass <b>Mount:</b> Black-chromed brass Weather- and shockproof plastics Stainless steel
RECOMMENDED INSTALLATION TORQUE	4 ± 1 Nm
COLOUR	Black
HEIGHT	Approx. 59 cm (dep. on freq.)
WEIGHT	X-version: Approx. 155 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 DESIGNATIONS

X-MOUNT (OBLONG) WITH FME	PRODUCT NO.	CX-MOUNT (CIRCULAR) WITH FME	PRODUCT NO.	[MHZ]
Models for general application - tunable with adjustment disc:				TUNING
MU 4-X/s	130000952	MU 4-CX/s	130000953	380...410
MU 4-X/f	130000922	MU 4-CX/f	130000923	406...430
MU 4-X/l	130000933	MU 4-CX/l	130000934	420...450
MU 4-X/h	130000927	MU 4-CX/h	130000928	440...470
Models for cellular systems - pretuned, without adjustment disc:				FREQUENCY
MU 4-X/CEL5	30001610	MU 4-CX/CEL5	130001612	380 - 410
MU 4-X/CEL4	130000951	MU 4-CX/CEL4	130000937	414 - 430
MU 4-X/CEL3	130000944	MU 4-CX/CEL3	130000940	425 - 440
MU 4-X/CEL2	130000941	MU 4-CX/CEL2	130000938	440 - 455
MU 4-X/CEL1	130000942	MU 4-CX/CEL1	130000943	450 - 470

XP4-MOUNT (OBLONG) WITH 4 M CABLE AND FME- CONN.	PRODUCT NO.	CXP4-MOUNT (CIRCULAR) WITH 4 M CABLE AND FME-CONN.	PRODUCT NO.	[MHZ]
Models for general application - tunable with adjustment disc:				TUNING
MU 4-XP4/s	130000954	MU 4-CXP4/s	130000955	380...410
MU 4-XP4/f	130000924	MU 4-CXP4/f	130000925	406...430
MU 4-XP4/l	130000935	MU 4-CXP4/l	130000936	420...450
MU 4-XP4/h	130000929	MU 4-CXP4/h	130000930	440...470
Models for cellular systems - pretuned, without adjustment disc:				FREQUENCY
MU 4-XP4/CEL5	130001611	MU 4-CXP4/CEL5	130001613	380 - 410
MU 4-XP4/CEL4	130000950	MU 4-CXP4/CEL4	130000949	414 - 430
MU 4-XP4/CEL3	130001474	MU 4-CXP4/CEL3	130000948	425 - 440
MU 4-XP4/CEL2	130000947	MU 4-CXP4/CEL2	130000939	440 - 455
MU 4-XP4/CEL1	130000945	MU 4-CXP4/CEL1	130000946	450 - 470

## ORDERING DESIGNATIONS

XG-COMBI MOUNT (OBLONG) WITH FME	PRODUCT NO.	[MHZ]
Models for general application - tunable with adjustment disc:		TUNING
MU 4-XG/s	130002033	380...410
MU 4-XG/f	130002034	406...430
MU 4-XG/l	130002093	420...450
MU 4-XG/h	130002094	440...470
Models for cellular systems - pretuned, without adjustment disc:		FREQUENCY
MU 4-XG/CEL5	130002099	380 - 410
MU 4-XG/CEL4	130002098	414 - 430
MU 4-XG/CEL3	130002097	425 - 440
MU 4-XG/CEL2	130002096	440 - 455
MU 4-XG/CEL1	130002095	450 - 470

XGP4-COMBI MOUNT (OBLONG) WITH 4 M CABLE AND FME-CONN.	PRODUCT NO.	[MHZ]
Models for general application - tunable with adjustment disc:		TUNING
MU 4-XGP4/s	130002035	380...410
MU 4-XGP4/f	130002036	406...430
MU 4-XGP4/l	130002105	420...450
MU 4-XGP4/h	130002106	440...470
Models for cellular systems - pretuned, without adjustment disc:		FREQUENCY
MU 4-XGP4/CEL5	130002104	380 - 410
MU 4-XGP4/CEL4	130002103	414 - 430
MU 4-XGP4/CEL3	130002102	425 - 440
MU 4-XGP4/CEL2	130002101	440 - 455
MU 4-XGP4/CEL1	130002100	450 - 470

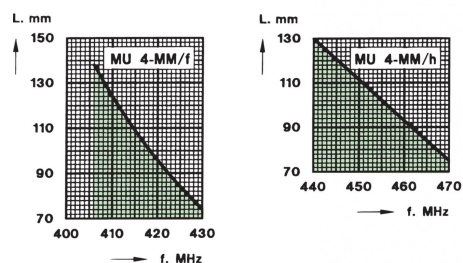
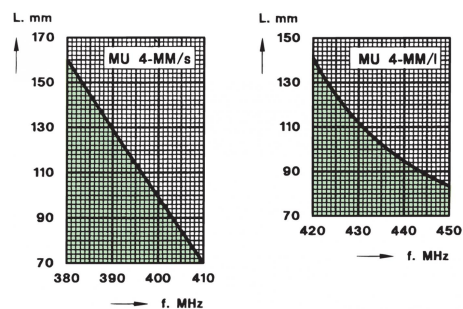
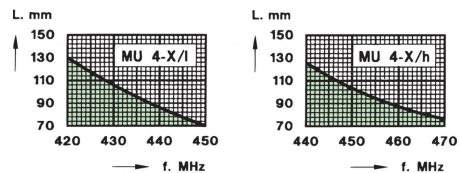
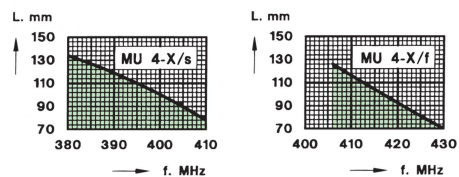
MM-MOUNT WITH FME	PRODUCT NO.	[MHZ]
Models for general application - tunable with adjustment disc:		TUNING
MU 4-MM/s	130000916	380...410
MU 4-MM/f	130000909	406...430
MU 4-MM/l	130000915	420...450
MU 4-MM/h	130000914	440...470
Models for cellular systems - pretuned, without adjustment disc:		FREQUENCY
MU 4-MM/CEL5	130001614	380 - 410
MU 4-MM/CEL4	130000912	414 - 430
MU 4-MM/CEL3	130000911	425 - 440
MU 4-MM/CEL2	130000910	440 - 455
MU 4-MM/CEL1	130000913	450 - 470

## 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



## PLEASE NOTE

For safety reasons:

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



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