

MU 909-XP4/...

900 MHz 2 dB Mobile Antenna for Glassfiber Roof

DESCRIPTION

- Groundplane independent antenna for installation on non-conducting surfaces.
- Ideal for glassfiber roofs as can be found on some trucks, busses, transport vans and trains.
- MU 909-XP4/l can be tuned by cutting within: 820 – 890 MHz.
- MU 909-XP4/h can be tuned by cutting within: 870 – 940 MHz.
- M6-thread whip-fastening system.
- Simple mounting exclusively with access from the outside.
- Models available with oblong or circular mount.
- Delivered with permanently attached 4 m low loss cable terminated with FME-connector.



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.	FREQUENCY/ CELLULAR SYSTEM	MOUNT
FIELD TUNABLE MODELS			
MU 909-XP4/l	130001227	820...890 MHz	Oblong mount with 4 m cable + FME-connector
MU 909-XP4/h	130001222	870...940 MHz	Same mount as above
MU 909-CXP4/l	130001228	820...890 MHz	Circular mount with 4 m cable + FME-connector
MU 909-CXP4/h	130001223	870...940 MHz	Same mount as above
READY-TUNED MODELS (examples)			
MU 909-XP4/h, EGSM		EGSM	Oblong mount with 4 m cable + FME-connector
MU 909-XP4/h, ETACS		ETACS, USA	Same mount as above
MU 909-XP4/h, EAMPS		EAMPS, USA	Same mount as above
MU 909-CXP4/h, EGSM		EGSM	Circular mount with 4 m cable + FME-connector
MU 909-CXP4/h, ETACS		ETACS, USA	Same mount as above
MU 909-CXP4/h, EAMPS		EAMPS, USA	Same mount as above

The MU 909-XP4/... is delivered in two field tunable models but may also be delivered readytuned for CELLULAR systems. When ordering a ready-tuned model, the name of the desired CELLULAR system must be added to the antenna model number.

SPECIFICATIONS

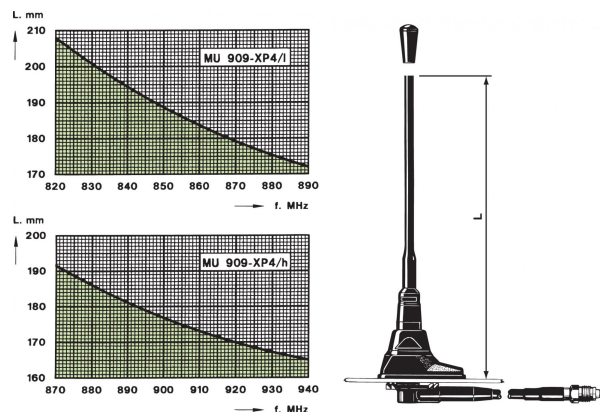
ELECTRICAL	
MODEL	MU 909-XP4/...
ANTENNA TYPE	End-fed 1/2 λ mobile whip antenna
FREQUENCY	820...940 MHz – covered by two models
IMPEDANCE	Nom. 50 Ω
POLAZISATION	Vertical
GAIN	2 dB (acc. to EIA RS-329-1)
BANDWIDTH	≥ 25 MHz @ SWR ≤ 1.5 ≥ 50 MHz @ SWR ≤ 2.0
SWR	≤ 1.2 @ f. res.
MAX. POWER	25 W
MECHANICAL	
MATERIALS	Whip: Polyethylene-covered spring steel wire Mount: Black-chromed brass Weather- and shockproof plastics Surface treated steel
RECOMMENDED INSTALLATION TORQUE	Max. 3 Nm
CABLE	4 m cable terminated with FME-connector
COLOUR	Black
HEIGHT	Approx. 26 cm
WEIGHT	Approx. 200 g
MOUNTING	From outside: 21 mm dia. hole From inside: 14 mm dia. hole
ROOF THICKNESS	0.6 → 5.0 mm

Please note that the MU 909-XP4 type "l"- and "h"-mounts contain matching transformers. Consequently, these special mounts cannot operate with other whip types.

INSTALLATION

This antenna is especially designed for installation on non-conducting surfaces as e.g. glassfiber roofs, as can be found on some trucks, busses, transport vans and trains. The antenna is an end-fed, $\frac{1}{2} \lambda$ -dipole concept which can be fed in such a way that the antenna does not require a "groundplane" as required by the standard $\frac{1}{4} \lambda$, $\frac{5}{8} \lambda$ or collinear mobile whips. It is useful to note that this antenna type can be used anywhere, where the ground-plane is poor or completely missing, as e.g.: side-mounted on a clamp as a pager antenna on a wall, or mounted at the very edge of a ground-plane without the loss induced by a tilted radiation pattern. The antenna must be mounted on a horizontal surface. When cleaning the vehicle in car-washing machines, the whip is easily dismounted using a spanner, size 9 mm. The whip is refitted again by screwing it onto the M6 thread stud on the mount and tightening it lightly with the spanner. A polyethylene-covered, closely spirally wound flat steel-band material causes the whip always to stand erect while at the same time being very flexible.

3. TUNING:



The antenna should always be tuned using an SWR-indicating device. The cutting diagrams below serve as a guide for this procedure.



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