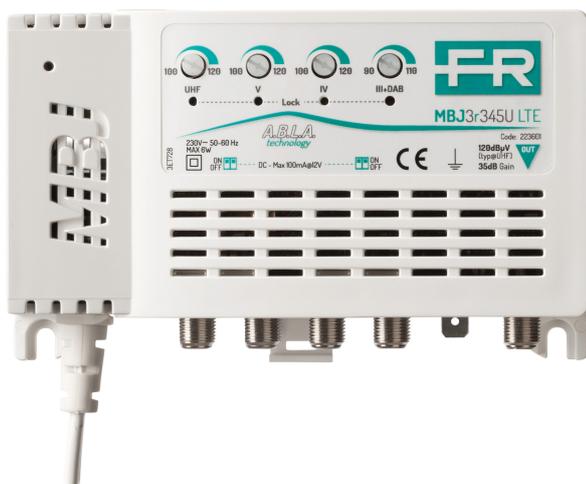


Multiband indoor TV amplifiers new range

MBJ EVO

Multiband TV Amplifier



The new generation of **MBJ Evo** multiband indoor amplifiers introduces a range of innovative features.

A.B.L.A. Technology!!

One of the most innovative features of the new generation of Multiband TV amplifiers is the "**Automatic Building Level Adjustment**" function.

This exclusive **FRACARRO system** allows the Multiband TV amplifier to maintain the constant RF output level, set by dedicated trimmers, even when the RF input signal level of each input changes.

Each input is equipped with its dedicated **A.B.L.A. LED** that lets the installer to instantly identify:

- if the RF levels of each TV input are within the correct working range
- if the dedicated **A.B.L.A.** circuits are maintaining a constant RF output level even for high variations in the input signal (over 25dB of dynamic range).

NOTE: If the TV input signal is too low or in under the minimum limits working windows of the A.B.L.A. circuits, the multiband TV amplifier works like a fixed-gain amplifier.

The MBJ EVO multiband TV amplifiers are equipped with **separate amplification** and independent RF input signal management, and also offer **high shielding against LTE interferences**.

The MBJ EVO multiband indoor amplifiers are protected by an **innovative ABS protective shell** non-propagating the flame (**Class V0**).

The dimensions of new Multiband Amplifiers **have been reduced by more than 60%** compared to the previous models and can be easily installed in wall-mounted enclosures. It is also possible to **mount on Standard DIN Bar** (quick release system).

The MBJ EVO is equipped with **high efficiency switching power supply (higher than 80%)** and **protection circuit against short-circuits with automatic reset**. There are also dip-switches for supply any mast pre-amplifiers (if any).

Main Specifications (*)

- **A.B.L.A. Technology: FRACARRO's** exclusive system for maintain the constant RF output level, set by the dedicated trimmer, even if the RF input level of each input changes (**A.B.L.A. independents circuits**)
- **RF output level stabilization** even for high variations of the TV input signal.
- **A.B.L.A. dedicated LED status.**
- **Separate amplification:** the new MBJ Evo multiband amplifiers work on "separate amplification" and independent signal management coming from different aerials.
- **High shield** against LTE interferences (**LTE Free**)
- **Protective shell: the MBJ EVO** are protected by an innovative **ABS protective shell** non-propagating the flame (**Class V0**).
- Suitable for fastening on **standard DIN bar** with quick release.
- Dimensions **reduced by more than 60%** compared to previous models, the new MBJ EVOs can be easily installed inside into the wall-mounted enclosures.
- **High performance switching power supply** (higher than 80% of efficiency) and self-resetting short circuit protection circuit.
- **Dip-switch** for enable the remote power supply on each input (100mA total).
- For the input of the power supply on each input
- Power Supply LED Status.
- **Faston** connector for the connection to the TV grounding system.

Fracarro Code	Item	N° of Inputs	Inputs Type	N° of Output	Gain (dB)	VHF/UHF maximum output level (IM3 -35dBc 2 tone) dBuV	Power consumpt (W)	Noise Figure VHF/UHF (dB)	Packag (pz)	Bar Code
223609	MBJ2r3+4+5 LTE	1	3+DAB+4+5	1	25	110/115	5	6/9	2	8016978099689
223608	MBJ3r3+4+5 LTE	1	3+DAB+4+5	1	35	110/120	6	6/6	2	8016978099672
223607	MBJ3r3U LTE	2	3+DAB,U	1	35	110/120	6	6/6	2	8016978099665
223606	MBJ2r3UU LTE	3	3+DAB,U,U	1	20	110/115	5	6/9	2	8016978099658
223605	MBJ3r3UU LTE	3	3+DAB,U,U	1	32	110/120	6	6/9	2	8016978099641
223611	MBJ2RFM+3UU LTE	3	FM+3+DAB,U,U	1	20	110/115	5	6/9	1	8016978099863
223610	MBJ3RFM+3UU LTE	3	FM+3+DAB,U,U	1	32	110/120	6	6/9	1	8016978099856
223603	MBJ2r345U LTE	4	3+DAB,4,5,U	1	20	110/115	5	6/9	2	8016978099634
223601	MBJ3r345U LTE	4	3+DAB,4,5,U	1	35	110/120	6	6/9	2	8016978099627
223604	MBJ2R345U LTE/.. (special settings)	4	3+DAB,4,5,U /..	1	20	110/115	5	6/9	1	8016978100002
223602	MBJ3R345U LTE/.. (special settings)	4	3+DAB,4,5,U /..	1	35	110/120	6	6/9	1	8016978099993

In standard models, B4 includes channels from E21 to E35 and B5 includes channels from E36 to E60.

For "special settings" versions, it is necessary to specify the last RF channel in B4 and the first channel in B5 during the order process.

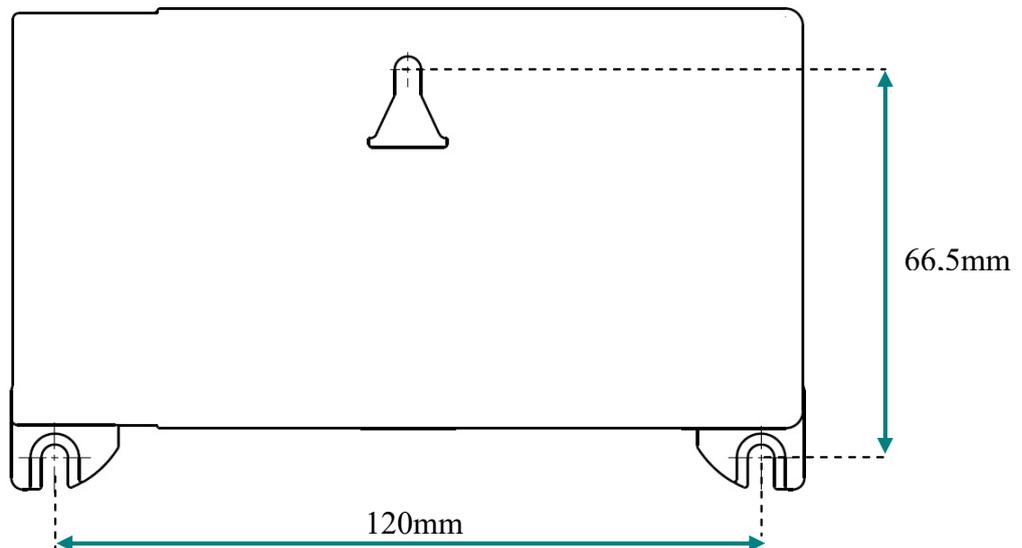
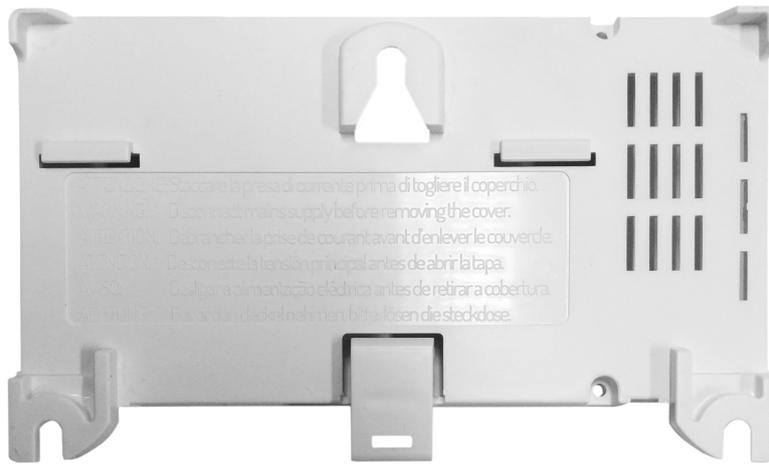
(*)Definitive specifications may change without notice.

General Features (*)

Mains	Vac/Hz	230 / 50-60
Remote Power Supply	Vdc/mA	12/100 (total)
LTE selectivity	dB	25 @ 790-862MHz
Connectors	Type	F female
Dimensions (L.× H.× D.)	mm	135x82x39 (item) – 152x105x42 (with package)
Weight	Kg	0,34
IP Protection		IP20 (ABS – Class V0)
Operating temperature	°C	-10 ÷ +55
Compliant		The full text of the EU declaration of conformity is available at the following internet address: http://ce.fracarro.com

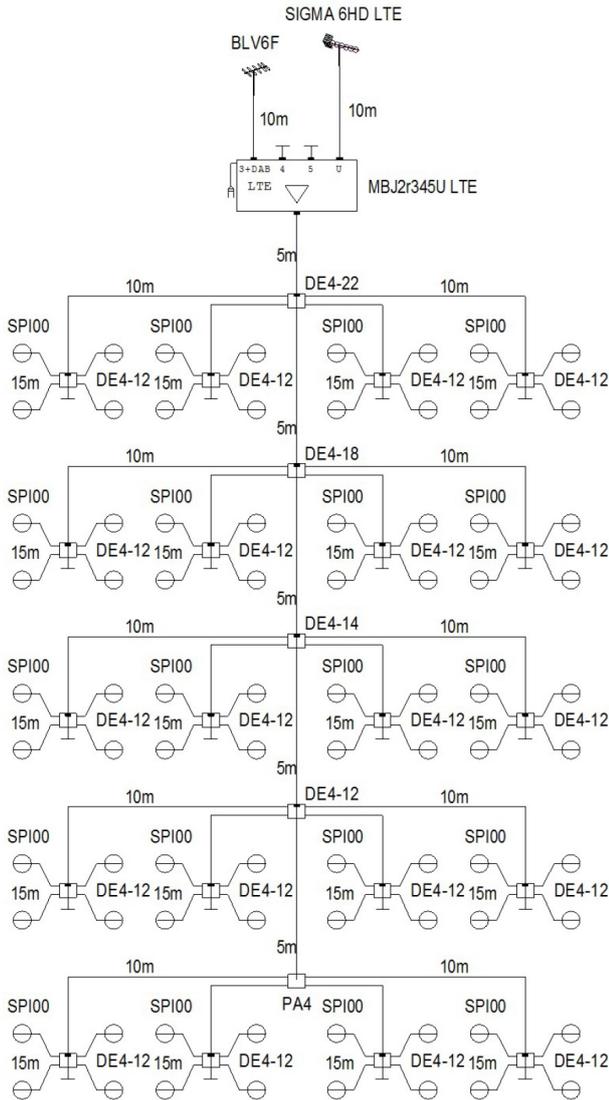
(*)Definitive specifications may change without notice.

Mechanicals



MBJ EVO (Examples)

Example n 1

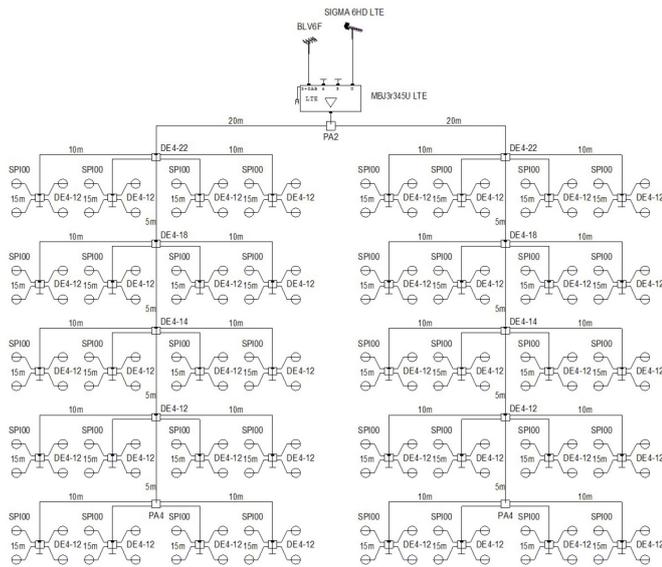


The RF output level settings are separated and stabilized by the Automatic Building Level Adjustment (A.B.L.A. circuits).

High performance switching power supplies (efficiency higher than 80%) and status LEDs.

Self-resetting short circuit protection circuit.

Example n 2



High shield against LTE interferences.

Dip-switch for enable the remote power supply on each input (100mA total).

More typical schematic installation are available for download on www.fracarro.com website.

