

Multiband TV mast amplifiers  
**MAP EVO T2**

*TV multiband  
amplifier*



**Multiband TV mast amplifiers**, completely designed and produced by FRACARRO, with **high output level** (up to **116dB $\mu$ V** in UHF band), VHF/UHF separate amplification and independent **gain adjustment** (0-15 dB) for each input and **low Noise Figure**

**T2 Technology:** new UHF cut band selections switch for LTE 4G @790MHz or 5G @694MHz; **LTE 4G and 5G integrated filters** to guarantee better connections protection **against weather conditions**, if compared with and external filter.

**Clipper feature** on higher gain versions: automatically limits the gain of the UHF input to **guarantee the maximum RF output level** and minimize the intermodulation. **Exclusively on Fracarro MAP**

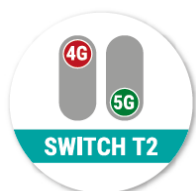
**RED Compliant:** this range has been carefully sized to ensure the **full compliance with the regulatory requirements** in terms of Safety and Radio Spectrum and also to Electromagnetic Compatibility contained in the recent European directives (RED Compliant).

**High shielding against LTE interferences**, thanks to the brand-new die-cast frame that encloses the amplification section.

On whole MAP EVO amplifiers is possible to insert the remote supply on a UHF input, moreover each amplifier is **equipped with a LED power status**, very useful to immediately detect the presence of short-circuits in the RF connection cables.

The **new outdoor plastic housing (ABS)** has a simplified slide and easy tilting opening for the amplification section, thus facilitating the installer's work during the cable connections and installation of the mast amplifier.

Some models are also available on **KIT with aerials**



## Main Specifications

- **T2 selector:** new UHF cut band selections switch for LTE 4G @790MHz or 5G @694MHz; **LTE 4G and 5G integrated filters** to guarantee better connections protection **against weather conditions**, if compared with and external filter.
- **CLIPPER Technology:** Automatic circuit (made by **FRACARRO**) which automatically limits the gain of the UHF input in order to guarantee the maximum RF output level and at the same time minimize the intermodulation
- **RED Compliant:** each model perfectly complies the Radio Spectrum and the Electromagnetic Compatibility and Safety indicated in recent European directives.
- **High shield against LTE interferences (LTE Free).**
- **Low Noise Figure** amplifiers
- **Separate Amplification:** the new MAP EVO multiband mast amplifiers work on VHF-UHF “separate amplification” and managed independently the RF signal coming from different aerials.
- **Protective shell (ABS):** the new **MAP EVO** has a simplified slide and easy tilting opening for the amplification section, thus facilitating the installer's work during the cable connections and installation of the mast amplifier.
- **Dip-switch** for enable the remote power supply on UHF input or on V+U input, depend from the model
- Power Supply **LED Status.**
- Different models (12Vdc or 24Vdc)

Fracarro Code	Item	N° in	Inputs type	Max gain (dB)	VHF,UHF max out level (dBuV)	Absorption (mA)	VHF,UHF noise figure (dB)	Clipper	LTE filter	Bar code
223753	MAP2R3+U T2	1	3+DAB+U	20,25	112,116	80@12V	5,4	-	4G/5G	8016978104161
223751	MAP4R3+U T2+	1	3+DAB+U	22,42	112,116	125@12V	6,4	V	4G/5G	8016978104147
223752	MAP4RU T2+	1	UHF	42		100@12V	3	V	4G/5G	8016978104154
223724	MAP2R3UPASS LTE	2	3+DAB,U	21,-	110,-	35@12V	6, -	-	4G	8016978101993
223755	MAP3R3U T2	2	3+DAB,U	21,28	112,116	80@12V	5,4	-	4G/5G	8016978104185
223756	MAP3R3+UU T2	2	3+DAB+U,U	28,28	112,116	60@12V	7,7	-	4G/5G	8016978104192
223754	MAP4R3U T2+	2	3+DAB,U	22,42	112,116	125@12V	5,3	V	4G/5G	8016978104178
223757	MAP3R3UU T2	3	3+DAB,U,U	21,28	112,116	105@12V	6,7	-	4G/5G	8016978104208
223712**	MAP3R3UU 2LTE	3	3+DAB,U,U	26,28	112,116	140@12V	5,7	-	4G	8016978100842
223713**	MAP3RFM+3UU2LTE	3	FM+3,U,U	26,28	112,116	140@12V	5,7	-	4G	8016978100859
223758	MAP4R3UU T2+	3	3+DAB,U,U	22,40	112,116	125@12V	5,7	V	4G/5G	8016978104215
223759	MAP2R345U T2	4	3+DAB,4,5,U	21,25	112,116	80@12V	5,7	-	4G/5G	8016978104222
223750*	MAP2R345U T2/.. (special setting)	4	3+DAB,4,5,U	21,25	112,116	80@12V	5,7	-	4G/5G	8016978105038
223716***	MAP2RFM3USAT	4	FM,3+DAB,U ,SAT	22,20, 25,1	112,116	80@12V	6,6	-	-	8016978100439
223729	MAP3IU LTE700	1	UHF	30	118	<b>90@24V</b>	3	-	5G	8016978102846
223704	MAP4RU LTE700+	1	UHF(+dc)	42	116	<b>100@24V</b>	3	V	5G	8016978100453
223711	MAP3RFM+3U 700	2	FM+3+DAB, UHF(+dc)	22,28	112/116	<b>85@24V</b>	5,4	-	5G	8016978100415

\* **Special settings models:** it is necessary to specify the last RF channel in B4 and the first channel in B5 during the order process; on standard models, B4 includes channels from E21 to E35 and B5 includes channels from E36 to E60.

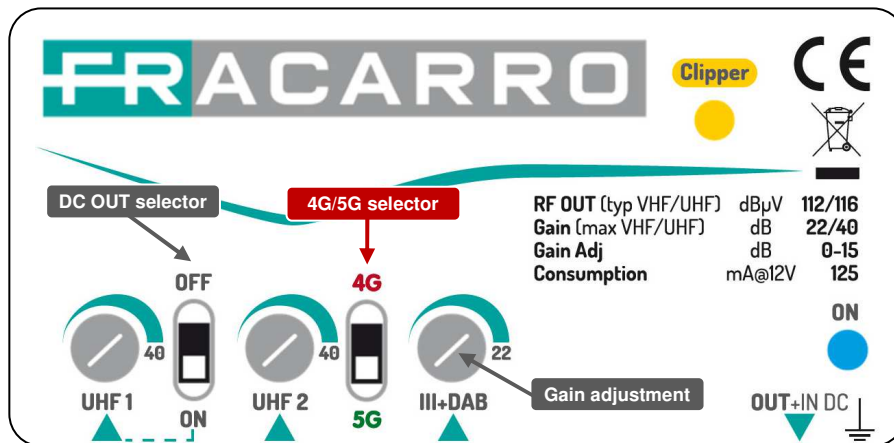
\*\* **2-output versions**

\*\*\* **DiSEqC tones pass through SAT input**

General Features (*)		
Packaging	Pcs	1
Power supply	Vdc	12 o 24 (depending from the model)
LTE selectivity	dB	>30@862MHz >15 @ 790MHz on LTE models or with 4G switch position >15 @ 703MHz on 700 models or with 5G switch position
Connectors	Tipo	F female
Dimensions (L. x H. x D.)	mm	120x105x50 (item) – 124x110x56 (with package)
Weight	Kg	0,26
IP Protection		IP43 (ABS)
Operating temperature	°C	-10 ÷ +55
Compliant		The full text of the EU declaration of conformity is available at the following internet address: <a href="http://ce.fracarro.com">http://ce.fracarro.com</a>

(\*) Definitive specifications may change without notice.

## Details

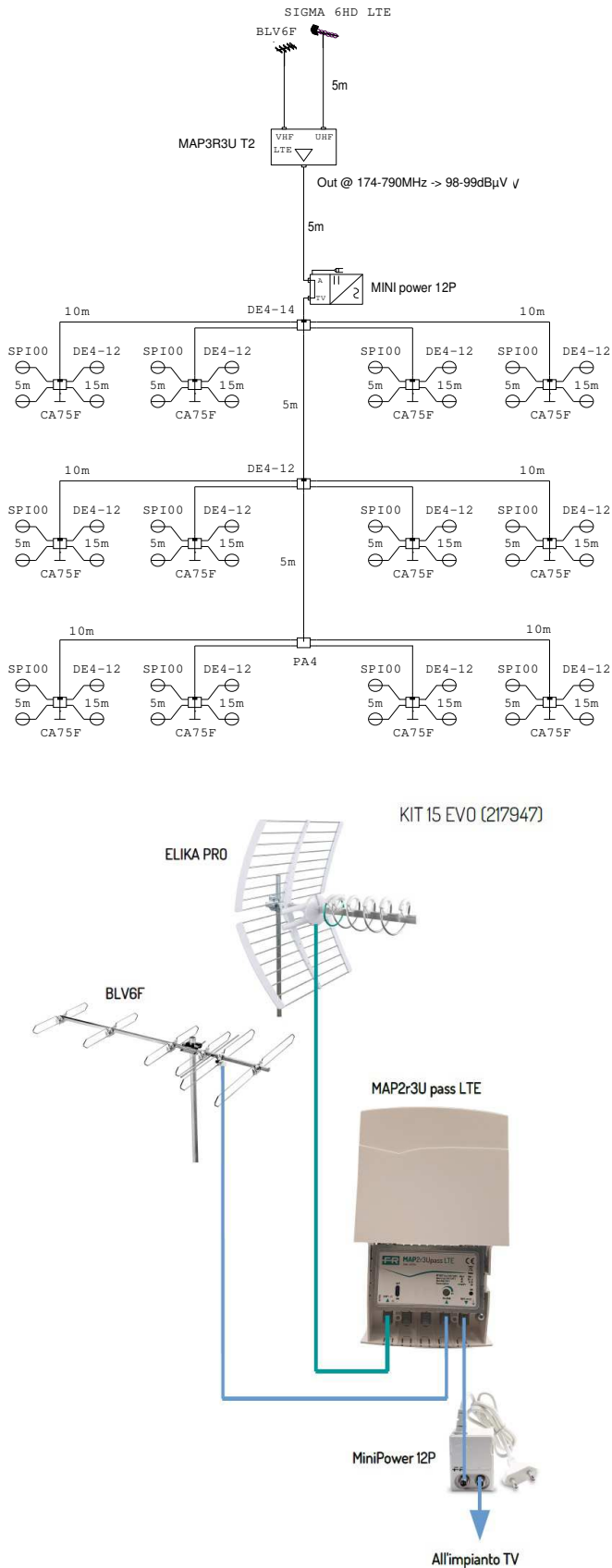


(All the main data are written on the product label)



(The MAP EVO settings are very simple and intuitive)

## MAP EVO T2 (Example)



All the adjustments of the input gains, the LED and the CLIPPER circuit (where present) can be easily identified thanks to the indications shown on the product label.

Very high shielding against LTE interferences thanks to the new die-cast frame and metal covers.

The MAP EVO new mast amplifiers are equipped with a dip-switch suitable to insert the remote power supply to one of the UHF inputs, as well as LEDs to indicate correct operation.

**MAP2R3U PASS** is a special mast amplifier with 2 inputs:

- 1 passive UHF with DC pass
- 1 active VHF

It can be used with active UHF TV aerials (for example ELIKA PRO or ELIKA PRO 700) and mix this signal with VHF band received with a passive aerial (for example BLV4F or BLV6F)

More typical schematic installation are available for download on [www.fracarro.com](http://www.fracarro.com) website.