

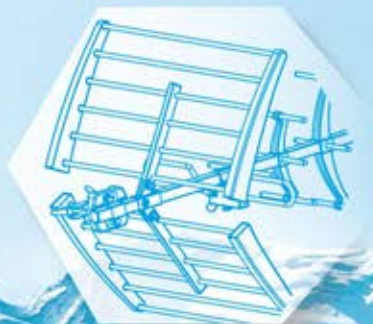
MULTIMEDIA-TV

Reception and distribution of TV signals

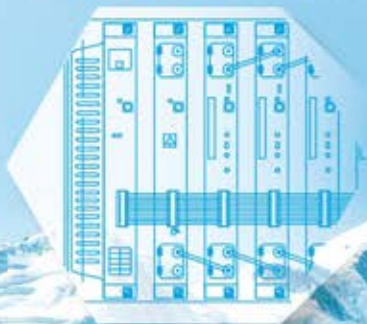
ALCAD

#signal_hunters

TV RECEPTION



SIGNAL PROCESSING



SIGNAL DISTRIBUTION



ALCAD Solutions for
the LTE700 band - 5G

904 BROADBAND AMPLIFIERS

INDOOR AMPLIFIER 2 OUTPUTS LTE700



Code : **9040129**

Model : **AI-270**

Description

Broadband apartment amplifier for terrestrial TV, with built-in power supply unit. It amplifies the VHF and UHF bands separately and has an independent gain control for each band. It incorporates a filter to reject the LTE700 band. It includes two symmetrical outputs to make the distribution to two or more televisions.

Applications

Designed to enlarge analogue and digital terrestrial TV installations within an apartment or house. It amplifies the TV signal so a distribution with several new outlets can be made from the signal of one TV outlet or from the coaxial cable entering the house. The levels are easily adjusted by means of the two gain controls. The amplifier prevents possible interferences generated by devices operating in the LTE700 and LTE800 band.

Characteristics

Made from ABS plastic, with an internal zamak chassis which gives maximum shielding. The power supply unit is insulated from the rest of the high frequency circuit, complying with the safety regulations for the installer and the user. Fixed to the wall by means of the supplied screws and wall-plugs. F type connectors.

CODE		9040129	
MODEL		AI-270	
Outputs		2	
Frequency range	Band	VHF	UHF
	MHz	40-318	470-694
Gain	dB \pm TOL	14 \pm 1.0	24 \pm 2.0
Flatness response	dB	\pm 1.0	\pm 1.2
Gain adjust	dB	16	12
Output Level	dB μ V	102 DIN45004B 99 (IMD ₃ - 60dB) 88 (IMD ₂ - 60dB) 86 (CTB - 60dB) 82 (CSO - 60dB) 89 (XMOD - 60dB)	
Retrun loss	dB	10	
Noise figure	dB	<4.5	<3.0
LTE band reject	dB	35	
Mains voltage	V~	230 \pm 10% 50/60Hz	
	VA	7	
Operating temperature	°C	-10.. +65	
Protection index		IP 20	
Units per packing		1	
Packing weight	Kg	0.4	
Packing dimensions	mm	115 x 102 x 45	

900 TERRESTRIAL ANTENNAS

UHF ANTENNA, CHANNELS 21/48, G = 13 DB



Code : **9000105**

Model : **BU-267**

Description

Double array antennas covering the complete gain range. Designed to cover the UHF band up to 694 MHz while rejecting the LTE700 and LTE800 mobile telephone band. Fast and easy assembly, all the components are premounted and no tools are required for their assembly.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is necessary.

Characteristics

Rejection of LTE700, LTE800 and GSM signals as well as signals coming from the bottom of the antenna. Robust antenna with great resistance to both sun and saltpetre. Made from aluminium, weather-resistant plastic and galvanised steel. Elevation angle adjustment, mounting in either horizontal or vertical polarity. Includes a balun (symmetrizer), specially designed for the antenna, with F-type connector protected inside the balun box. Packed individually, in multiple packs or unassembled.

900 TERRESTRIAL ANTENNAS

UHF ANTENNA MX, CHANNELS 21/48, G = 15DB



Code : **9000109**

Model : **MX-047**

Description

Quadruple array antennas with very high gain. Designed to cover the UHF band up to 694 MHz while rejecting the LTE700 and LTE800 mobile telephone band. Fast and easy assembly, all the components are pre-mounted and do not require tools for their assembly.

Applications

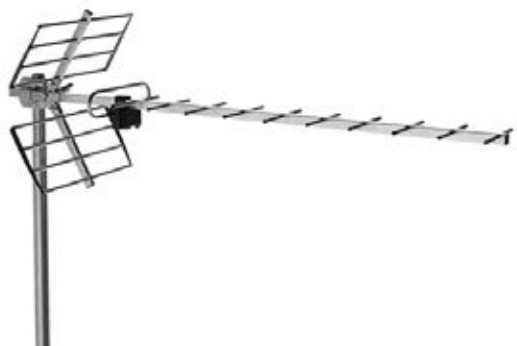
Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 band is necessary and high gain and directivity are required. The reflectors avoid interferences received from behind.

Characteristics

Rejection of LTE700, LTE800 and GSM signals as well as signals coming from the bottom of the antenna. Robust antenna with great resistance to both sun and saltpetre. Made from aluminium, weather-resistant plastics and galvanised steel. Large size reflector, elevation angle adjustment, mounting in either horizontal or vertical polarity. Includes a balun (symmetrizer), specially designed for the antenna, with F-type connector protected inside the balun box. Packed individually.

900 TERRESTRIAL ANTENNAS

UHF ANTENNA, CHANNELS 21/48, G = 12 DB



Code : **9000110**

Model : **BU-117**

Description

Yagi antennas designed to cover the UHF band up to 694 MHz while rejecting the LTE700 and LTE800 mobile telephone band. Fast and easy reflector assembly, all the components are pre-mounted and no tools are required for their assembly.

Applications

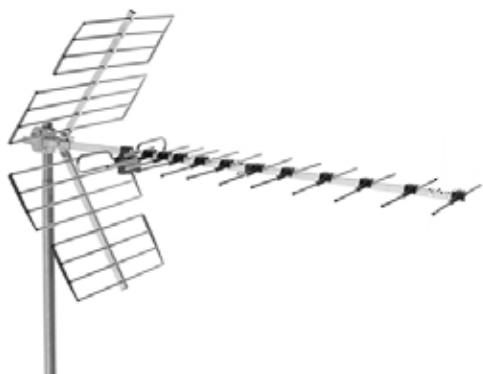
Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 band is necessary.

Characteristics

Rejection of LTE700, LTE800 and GSM signals as well as signals coming from the lower part of the antenna. Robust antenna with great resistance to both sun and saltpetre. Made from aluminium, weather-resistant plastic and galvanised steel. Reduced size reflector to facilitate assembly and installation. Elevation angle adjustment, mounting in either horizontal or vertical polarity. Includes a balun (symmetrizer), specially designed for the antenna, with F-type connector protected inside the balun box. Packed individually.

900 TERRESTRIAL ANTENNAS

UHF ANTENNA, CHANNELS 21/48, G = 14 DB



Code : **9000111**

Model : **BU-457**

Double array antenna designed to cover the UHF band up to 694 MHz. No built-in LTE rejection filters. Fast and easy assembly: all the parts are premounted and no tools are required for their assembly. BU-457 antennas are supplied in individual packs, but are also available in multiple packs using the reference GA-457.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is unnecessary or is done by an external filter.

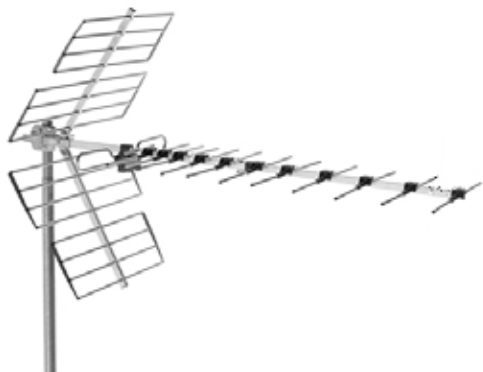
Characteristics

Rejection of signals coming from the bottom of the antenna. Robust antenna with great resistance to both sun and saltpetre. Manufactured in aluminum, weather-resistant plastic and galvanised steel. Elevation angle adjustment, mounting in either horizontal or vertical polarity. Includes a matching balun (symmetrizer) with an F-type connector protected inside the balun box.

CODIGO-CODE-CODE		9000202	9000111
MODELO-MODEL-MODELE		BU-452	BU-457
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470 -694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	14	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/ detrás Front/back ratio Rapport avant/ arriere	dB	25	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	28	
	° V	34	
Longitud Lenght Longueur	mm	1298	
Resistencia al viento Wind loading Résistance au vent	N	H	89
		V	94
Índice de protección Protection index Indice de protection		IP 53	

900 TERRESTRIAL ANTENNAS

BOX OF 5 ANTENNAS BU-457 IN PLASTIC BAG



Code : **9000112**

Model : **GA-457**

Box containing 5 BU-457 antennas in individual plastic bags.

A box containing 5 BU-457 antennas will be supplied for each GA-457 that is ordered. Orders should indicate the number of boxes with antennas, and not the number of antennas.

The antennas in this kind of packaging reduce the volume of each order, resulting in reduced transportation costs, while taking up a smaller storage space.

CODIGO-CODE-CODE		9000202	9000111
MODELO-MODEL-MODELE		BU-452	BU-457
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470-694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	14	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/ detrás Front/back ratio Rapport avant/ arriere	dB	25	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	28	
	° V	34	
Longitud Lenght Longueur	mm	1298	
Resistencia al viento Wind loading Résistance au vent	N	H	89
		V	94
Índice de protección Protection index Indice de protection		IP 53	

900 TERRESTRIAL ANTENNAS

UHF ANTENNA NEO CHANNELS 21/48, G = 18DB

Code : **9000187**

Model : **NEO-087**



Antenna for optimal reception of DTT channels, with the best available gain (18 dBi). Designed to cover the UHF band up to 694 MHz. No built-in LTE rejection filters. Easy to mount and adjust, providing maximum robustness and ensuring complete safety of installation. Stylish design that reflects the excellent electrical and mechanical qualities of the antenna.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is performed with an external filter (not provided with this antenna) and high gain and directivity are required. The reflectors prevent interference produced by the signals received from the rear of the antenna.

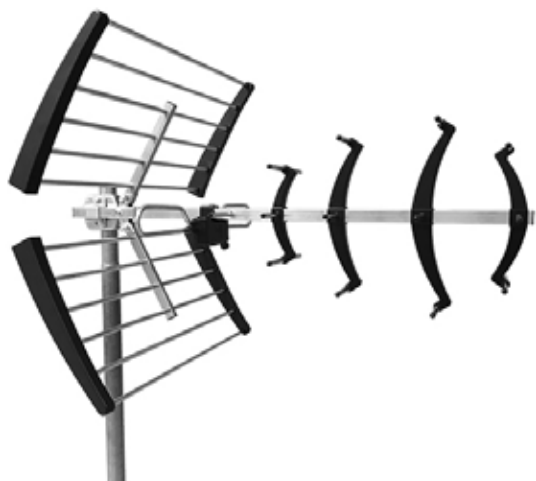
Characteristics

Manufactured in aluminum, zamak, weather-resistant plastic and galvanised steel. Includes a matching transformer with F-type connector, protected inside a watertight casing (IP55). No tools required for installation. Supplied in an individual pack.

CODIGO-CODE-CODE		9000201	9000187
MODELO-MODEL-MODELE		NEO-082	NEO-087
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470 -694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	18	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/detrás Front/back ratio Rapport avant/arriere	dB	32	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	30	
	° V	28	
Longitud Lenght Longueur	mm	1160	
Resistencia al viento Wind loading Résistance au vent	N	H	125
		V	95
Índice de protección Protection index Indice de protection		IP 55	

900 TERRESTRIAL ANTENNAS

UHF ANTENNA NEO CHANNELS 21/48, G = 16DB



Code : **9000189**

Model : **NEO-047**

Antenna for optimal reception of DTT channels, with a high gain (16 dBi). Designed to cover the UHF band up to 694 MHz. No built-in LTE rejection filters. Easy to mount and adjust, providing maximum robustness and ensuring complete safety of installation. Stylish design that reflects the excellent electrical and mechanical qualities of the antenna.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is performed with an external filter (not provided with this antenna) and high gain and directivity are required. The reflectors prevent interference produced by the signals received from the rear of the antenna.

Characteristics

Manufactured in aluminum, zamak, weather-resistant plastic and galvanised steel. Includes a matching transformer with F-type connector, protected inside a watertight casing (IP55). No tools required for installation. Supplied in an individual pack.

CODIGO-CODE-CODE		9000200	9000189
MODELO-MODEL-MODELE		NEO-042	NEO-047
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470 -694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	16	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/detrás Front/back ratio Rapport avant/arriere	dB	30	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	48	
	° V	58	
Longitud Lenght Longueur	mm	800	
Resistencia al viento Wind loading Résistance au vent	N	H	105
		V	92
Índice de protección Protection index Indice de protection		IP 53	

900 TERRESTRIAL ANTENNAS

ARRAY ANTENNA, CHAN 21/48 REJ, G = 14 DB



Code : **9000197**

Model : **AP-367**

Description

Quadruple array antennas. Designed to cover all the UHF band with maximum flatness. Fast and easy assembly, all the components are premounted and do not require tools for their assembly.

Applications

Individual and MATV digital and analogue terrestrial TV installations, where high gain and directivity are required and where rejection of the LTE band is necessary. The reflectors avoid interferences received from behind.

Characteristics

Rejection of LTE and GSM signals as well as signals coming from the bottom of the antenna. Robust antenna with great resistance to both sun and saltpetre. Made from aluminium, weather-resistant plastics and galvanised steel. Large size reflector, elevation angle adjustment, mounting in either horizontal or vertical polarity. Includes a balun (symmetrizer), specially designed for the antenna, with F-type connector protected inside the balun box. Packed individually.

CODE		9000197
MODEL		AP-367
Frequency range	MHz	470-694
Channel		21-51 <small>8/8 Australia</small>
Elements		28
Gain	dB _{pV}	13,5
Front / back ratio	dB	25
Impedance	Ω	75
Retrun loss	dB	>10
Polarity		H / V
Beam width	°H	45
	°V	25
Lenght	mm	840 x 670
Wind loading	N	83
	V	108
Connection		F female
Protection index		IP53
Colour		Black / Aluminium
Pack x Code x Unit x Pallet		17 x 2 x 1
Packing weight	Kg	3,75
Pallet weight	Kg	78,8
Packing dimensions	mm	860 x 765 x 140
Pallet dimensions	mm	1200 x 800 x 2000

902 MULTIPLEXERS AND FILTERS

LTE700 C48, REJECT FILTER 60 DB



Code : **9020052**

Model : **FR-900**

Description

Rejection filter for mast, cutting out interference from LTE700, LTE800, GSM and TETRA mobile phone signals. It incorporates a DC path to allow power to be supplied to a preamplifier.

Applications

Suitable for individual and collective terrestrial TV installations affected by the transmission of LTE700 and LTE800 mobile phone signals in the 703-862 MHz band, and by the transmission of GSM and TETRA signals in the 870-960 MHz band. The filter eliminates interference signals before amplification of the TV signals in the head-end of the installation, obtaining a rejection in the LTE700 and LTE800 band of up to -60dB.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. The filter can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). F-type connector.

903 MAST AMPLIFIERS

AMP UHF+BIII/FM 24 DB LTE MAST 12 VDC



Code : **9030185**

Model : **AM-183**

Description

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-694 MHz. They have one input to amplify and combine the signals from the antennas. The inputs can be configured as a single input for the combined bands or two inputs for separate bands. They are fed through the coaxial cable from a power supply unit installed inside the building.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

CODE		9030185			9030186		
MODEL		AM-183			AM-187		
Connection		F female					
Inputs		1/2			1/2		
Frequency range	Band	FM	BIII/DAB	UHF	FM	BIII/DAB	UHF
	MHz	88-108	160-260	470-694	88-108	160-260	470-694
Gain	dB	16		24	20		34
Flatness response	dB	±1		±2	±1		±2
Adjustable gain range	dB	20		16	20		16
Output level	dBμV	108 DIN 45004B 105 (IMD ₃ -66dB) 95 (IMD ₃ -60dB)					
Return loss	dB	≥10					
Noise figure	dB	5,0 ±1,0		3,5 ±1,0	5,0 ±1,0		3,5 ±1,0
Rejection between inputs	dB	>30					
Power supply	V _G	12					
	mA	45					
Operating temperature	°C	-20.. 65					
Protection index		IP53					
Units per packaging		1			24		
Packing weight	Kg	0,22			5,87		
Packing dimension	mm	110 x 125 x 45			345 x 200 x 280		

903 MAST AMPLIFIERS

AMP UHF+BIII/FM 32 DB LTE700 MAST 12 VDC



Code : **9030186**

Model : **AM-187**

Description

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-694 MHz. They have one input to amplify and combine the signals from the antennas. The inputs can be configured as a single input for the combined bands or two inputs for separate bands. They are fed through the coaxial cable from a power supply unit installed inside the building.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

CODE		9030185			9030186		
MODEL		AM-183			AM-187		
Connection		F female					
Inputs		1/2			1/2		
Frequency range	Band	FM	BIII/DAB	UHF	FM	BIII/DAB	UHF
	MHz	88-108	160-260	470-694	88-108	160-260	470-694
Gain	dB	16		24	20		34
Flatness response	dB	±1		±2	±1		±2
Adjustable gain range	dB	20		16	20		16
Output level	dBμV	108 DIN 45004B 105 (IMD ₃ -66dB) 95 (IMD ₃ -60dB)					
Return loss	dB	≥10					
Noise figure	dB	5,0 ±1,0		3,5 ±1,0	5,0 ±1,0		3,5 ±1,0
Rejection between inputs	dB	>30					
Power supply	V _G	12					
	mA	45					
Operating temperature	°C	-20.. 65					
Protection index		IP53					
Units per packaging		1			24		
Packing weight	Kg	0,22			5,87		
Packing dimension	mm	110 x 125 x 45			345 x 200 x 280		

903 MAST AMPLIFIERS

AMP UHF 20 DB LTE700 MAST 24 VDC



Code : **9030192**

Model : **AM-190**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have one input to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial, Ø7.0 mm

903 MAST AMPLIFIERS

AMP UHF 32 DB LTE700 MAST 24 VDC



Code : **9030193**

Model : **AM-195**

Description

Broadband amplifiers for masts, compatible with LTE700 mobile telephone signals with amplification band in UHF 470-694 MHz. They have one input to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial, Ø7.0 mm

903 MAST AMPLIFIERS

AMP UHF-DAB/FM 20 DB LTE700 MAST 24 VDC



Code : **9030194**

Model : **AM-292**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have two inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require low gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial, Ø7.0 mm. CODE 9030165 9030166 9030172

903 MAST AMPLIFIERS

AMP UHF-DAB/FM 32 DB LTE700 MAST 24 VDC



Code : **9030195**

Model : **AM-296**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have three inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

903 MAST AMPLIFIERS

KIT AMP AM-190 & POWER SUPPLY



Code : **9030196**

Model : **BO-190**

Description

Antennas for optimal reception of DTT channels, with the best available gain (18 dBi). Designed to cover the UHF band up to 790 MHz while rejecting the LTE mobile telephone band. Easy to mount and adjust, providing maximum robustness and ensuring complete safety of installation. With a stylish design which perfectly reflects the excellent electrical and mechanical qualities of the antenna.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE band is necessary and high gain and directivity are required. The reflectors prevent interference produced by the signals received from the rear of the antenna.

Characteristics

Rejection of LTE and GSM signals. Manufactured in aluminium, zamak weather-resistant plastic and galvanised steel. Innovative spring-loaded clamp system for attaching to the mast, making installation even easier. The simplified pointing system with the antenna already fastened to the mast enables adjustments using a single hand. System for changing polarisation without removing the antenna from the mast. Watertight matching transformer casing (IP55). Matching transformer, with F-type connector, protected inside the casing. System of front-fixing reflectors for greater ease of assembly. No tools required for installation. Supplied in an individual pack.

903

MAST AMPLIFIERS

KIT AMP AM-195 & POWER SUPPLY



Code : **9030197**

Model : **BO-195**

Description

Kits consisting of a mast amplifier and a power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

903

MAST AMPLIFIERS

KIT AMP AM-292 & POWER SUPPLY



Code : **9030198**

Model : **BO-292**

Description

Kits consisting of a mast amplifier and a power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

Accessories

9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm

903

MAST AMPLIFIERS

KIT AMP AM-296 & POWER SUPPLY



Code : **9030199**

Model : **BO-296**

Description

Kits consisting of a mast amplifier and a power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

Accessories

9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm

903 MAST AMPLIFIERS

AMP UHF-BIII/DAB-FM 32 DB LTE700 12 VDC



Code : **9030200**

Model : **AM-387**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have three inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

903 MAST AMPLIFIERS

AMP UHF-BIII/DAB-FM 32 DB LTE700 24 VDC



Code : **9030201**

Model : **AM-397**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have three inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

903 MAST AMPLIFIERS

KIT AMP AM-397 & POWER SUPPLY 24 VDC



Code : **9030202**

Model : **BO-397**

Description

Kits consisting of a mast amplifier and a power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

Accessories

9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm

903 MAST AMPLIFIERS

AMP UHF-UHF-BIII/DAB-FM 32 DB LTE700 24V



Code : **9030204**

Model : **AM-497**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have four inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

903 MAST AMPLIFIERS

AMP UHF-UHF-BIII/DAB-FM 32 DB LTE700 12V



Code : **9030205**

Model : **AM-487**

Description

Broadband amplifiers for masts, compatible with LTE700 and LTE800 mobile telephone signals with amplification band in UHF 470-694 MHz. They have four inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals and which require high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

903

MAST AMPLIFIERS

KIT AMP AM-497 & POWER SUPPLY 24 VDC

Code : **9030206**

Model : **BO-497**

Description

Kits consisting of a mast amplifier and a power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

Accessories

9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm

904 BROADBAND AMPLIFIERS

AMPLI UHF-UHF-BIII-BI/FM LTE700 EVEREST



Code : **9040132**

Model : **CA-662**

Description

Broadband amplifier for head-end, with four inputs and different frequency configurations, compatible with the transmission of LTE700 and LTE800 mobile telephone signals. The built-in power supply unit can feed a preamplifiers by means of a switch. Optional external power supply for redundant power. Output test-point to adjust the installation without having to disconnect the TV signal.

Applications

Large-scale digital and analogue MATV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of switches and regulators which control the gain at each input.

Characteristics

Made from zamak and galvanised steel plate to provide maximum shielding. Input and output connectors in the opposite sides to facilitate installation. F-type connectors.

CODE	9040132				
MODEL	CA-662				
Number of inputs/outputs/test		4 / 1 / 1			
Frequency range	Band	UHF1	UHF2	BIII/DAB	BI/FM
	MHz	470-694		160-260	47-108
LTE Filter		LTE700			
Gain	dB \pm TOL	45/30 \pm 1,0 Switchable		32 \pm 1,0	32 \pm 2,0
Gain adjustment	dB	16		20	
Output level	dB μ V	117 DIN 45004B 114 (IMD ₃ -60 dB) 107 (IMD ₂ -60 dB)			
Noise figure	dB	9 \pm 1,0		7 \pm 1,0	8 \pm 1,0
Output voltage	Vdc	24			
	mA	60			
Mains voltage	Vac	99-264			
	W	8,8			
External voltage	Vdc	24			
	mA	300			
Operating temperature	°C	-10 ... +65			
Protection index		IP 20			

909 ACCESSORIES

LTE700 C48 & GSM REJECTION FILTER 60 DB



Code : **9090046**

Model : **RB-900**

Description

Rejection filter for head-end, cutting out interference from LTE700, LTE800, GSM and TETRA mobile phone signals. It incorporates a DC path to allow power to be supplied to a preamplifier.

Applications

Suitable for individual and collective terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile phone signals in the 703-862 MHz band, and by the transmission of GSM and TETRA signals in the 870-960 MHz band. The filter eliminates interference signals before amplification of the TV signals in the head-end of the installation, obtaining a rejection in the LTE700 and LTE800 band of up to -60dB.

Characteristics

Shielded zamak chassis, metal-plated, with F-type connectors. Connectors situated at opposite sides to facilitate connections. Its compact design means it can be installed in a 100 x 100 mm box.

904 BROADBAND AMPLIFIERS

EVEREST SAT-UHF-UHF-BIII-BI/FM LTE700



Code : **9040144**

Model : **CA-672**

Description

Broadband amplifier for head-end, with four inputs and different frequency configurations, compatible with the transmission of LTE700 et LTE800 mobile telephone signals. Satellite amplifier for one polarity. Separate power supply. UHF Band preamplifiers can be fed means of a switch. Output test-point to adjust the installation without having to disconnect the TV signal.

Applications

Large-scale digital and analogue SMATV installations which are affected by the transmission of LTE700 et LTE800 mobile telephone signals. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of switches and regulators which control the gain at each input. Satellite polarity selection by means of switches that select voltage and 22 kHz tone.

Characteristics

Made from zamak and galvanised steel plate to provide maximum shielding. Input and output connectors in the opposite sides to facilitate installation. F-type connectors.

CODIGO-CODE-CODE	9040144					
MODELO-MODEL-MODELE	CA-672					
Número de entradas/salidas/test Number of inputs/outputs/test Nombre d'entrées/sorties/test		5 / 1 / 1				
Rango de frecuencia Frequency range Gamme de fréquences	Band	SAT	UHF1	UHF2	BIII/DAB	BI/FM
	MHz	950 - 2150	470 - 694		160-260	47-108
Filtro LTE LTE Filter Filtre LTE			LTE700			
Ganancia Gain Gain	dB± TOL	43 ± 1,0	45/30 ± 1,0 Switchable		30 ± 1,0	
Regulación de ganancia Gain adjustment Réglage de gain	dB	20	16		20	
Margen de ecualización Adjustable equalization range Plage de réglage de pente	dB	0/8 Switchable				
Nivel de salida Output level Niveau de sortie	dBµV	118,5 (IMD ₃ -35 dB) 112,0 (IMD ₂ -35 dB)	117 DIN 45004B 114 (IMD ₃ -60 dB) 107 (IMD ₂ -60 dB)			
Figura de ruido Noise figure Facteur de bruit	dB	7 ±1,0	8 ±1,0		7 ±1,0	
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10 ... +65				
Índice de protección Protection index Indice de protection		IP 50D				

904 BROADBAND AMPLIFIERS

EVEREST SAT-UHF-BIII-BI/FM LTE700



Code : **9040143**

Model : **CA-671**

Description

Broadband amplifier for head-end, with four inputs and different frequency configurations, compatible with the transmission of LTE700 and LTE800 mobile telephone signals. Satellite amplifier for one polarity. Separate power supply. UHF Band preamplifiers can be fed means of a switch. Output test-point to adjust the installation without having to disconnect the TV signal.

Applications

Large-scale digital and analogue SMATV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of switches and regulators which control the gain at each input. Satellite polarity selection by means of switches that select voltage and 22 kHz tone.

Characteristics

Made from zamak and galvanised steel plate to provide maximum shielding. Input and output connectors in the opposite sides to facilitate installation. F-type connectors.

CODIGO-CODE-CODE		9040143			
MODELO-MODEL-MODELE		CA-671			
Número de entradas/salidas/test Number of inputs/outputs/test Nombre d'entrées/sorties/test		4 / 1 / 1			
Rango de frecuencia Frequency range Gamme de fréquences	Band	SAT	UHF	BIII/DAB	BI/FM
	MHz	950 - 2150	470 - 694	160-260	47-108
Filtro LTE LTE Filter Filtre LTE			LTE700		
Ganancia Gain Gain	dB± TOL	43 ± 1,0	45/30 ± 1,0 Switchable	30 ± 1,0	
Regulación de ganancia Gain adjustment Réglage de gain	dB	20	16	20	
Margen de ecualización Adjustable equalization range Plage de réglage de pente	dB	0/8 Switchable			
Nivel de salida Output level Niveau de sortie	dBµV	118,5 (IMD ₃ -35 dB) 112,0 (IMD ₂ -35 dB)	117 DIN 45004B 114 (IMD ₃ -60 dB) 107 (IMD ₂ -60 dB)		
Figura de ruido Noise figure Facteur de bruit	dB	7 ±1,0	8 ±1,0	7 ±1,0	
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10 ... +65			
Índice de protección Protection index Indice de protection		IP 50D			

904 BROADBAND AMPLIFIERS

DIG PROG AMP 4XUHF-2XVHF-FM MONT BLANC



Code : **9040145**

Model : **CAD-704**

Description

High selectivity programmable compact headend to digitally filter, convert and equalize DVB-T/T2 and ISDB-T channels.

The built-in high output amplifier allows the use in small or medium buildings installation.

Characteristics

Compact headend of 5 Inputs, auto-scan function, selectable LTE 700 5G / 800 4G SAW filters, up to 64 high selectivity filters with ACG, converts up to 32 single channels, 24 Digits LCD display, zamak die casting chassis. CCIR Channel table, M channel table on request.

CÓDIGO-CODE-CODE		9040145
MODELO-MODEL-MODELE		CAD-704
Número de entradas		2 x UHF
Number of inputs		2 x UHF/BIII/DAB
Nombre d'entrées		1 x FM/BI
Rango de frecuencias	MHz	UHF (470..694/790/862 MHz)
Frequency range		BIII/DAB (170..240 MHz)
Gamme de fréquences		FM/BI (40..108 MHz)
Filtros programables		32
Programmable filters		
Filtres programmables		
Número de canales por filtro		1..2
Number of channels per filters		
Nombre de canaux par filtre		
Nivel de entrada	dBμV	UHF 40..110
Input level		BIII/DAB 40..110
Niveau d'entrée		FM/BI 35..90
Atenuador de entrada	dB	UHF 0..-20
Input attenuator		BIII/DAB 0..-20
Atténuateur d'entrée		FM/BI 0..-20
Rango CAG	dB	40
AGC range		
Plage CAG		
Selectividad	dB	35@1MHz
Selectivity		
Sélectivité		

CÓDIGO-CODE-CODE		9040145
MODELO-MODEL-MODELE		CAD-704
Atenuador inter etapas Interstage attenuator Atténuateur inter étapes	dB	0..-20
Ganancia Gain Gain	dB	UHF 40 BIII/DAB 50 FM/BI 40
Nivel de salida Max output level Niveau maximum de sortie	dBμV	120 (IM3 DIN 45004B -60 dBc)
Pérdidas de retorno entrada/salida Return loss in/out Pertes de retour entrée/sortie	dB	>12
Test de salida Test output Test de sortie		1 (-30dB)
Conector USB USB connector Connecteur USB		USB 1.0/2.0 Tipo B
Tensión de salida Output voltage Tension de sortie		12/24V, 100mA
Tensión de red Mains voltage Tension du secteur		230 VAC +/-20% 16W máx. (Alimentador externo DC 20V 2.25A)
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-5...50
Dimensiones Dimensions Dimensions	mm	192 x 217 x 37

904 BROADBAND AMPLIFIERS

AMP TV-SAT IF-3XUHF-BIII/DAB-BI/FM LTE7



Code : **9040142**

Model : **CA-770**

Description

TV-SAT broadband head-end amplifier with several inputs compatible with the transmission of LTE700 and LTE800 mobile telephone signals. They independently amplify the terrestrial TV and satellite IF bands and distribute both bands through the output. It has a voltage switch and 22 KHz tone in order to select the polarity of an individual LNB. The built-in power supply unit can feed up to five preamplifiers and a LNB automatically.

Applications

Designed for medium to large analogue and digital SMATV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. Used as a single piece of equipment to treat all terrestrial and satellite TV signals, greatly simplifying the installation. Adjusted by means of a gain controller for each terrestrial/SAT input and a variable slope control for SAT.

Characteristics

Made from zamak and galvanised plate for maximum shielding. Separate housings for the power supply unit and the high frequency circuit. F-type connectors, located on the lower part to make installation easier.

CODIGO-CODE-CODE		9040142					
MODELO-MODEL-MODELE		CA-770					
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		6 / 1					
Ganancia Gain Gain	Band	BI/FM	BIII/DAB	UHF1	UHF2	UHF3	SAT
	MHz	47-108	160-254	470-694		950-2150	
	Filter			LTE700			
	dB ± TOL	40 ± 2,0		51 ± 2,0		42 ± 2,0	
Regulación de ganancia Gain adjustment Réglage de gain	dB	20					
Ecualización fija Fixed equalization Pente fixe	dB	-					5
Margen de ecualización Adjustable equalization range Plage de réglage de pente	dB	-					7
Nivel de salida Output level Niveau de sortie	dBµV	122 DIN 45004B 119 (IMD ₃ -60 dB) 112 (IMD ₂ -60 dB)					120 (IMD ₃ -35 dB) 110 (IMD ₂ -60 dB)
Figura de ruido Noise figure Facteur de bruit	dB	10 ± 1,0		9 ± 1,0		10 ± 1,0	
Tensión de salida Output voltage Tension de sortie	Vdc	24 Auto					13 / 18
	mA	60					350
	Tone						0/22 KHz
Tensión de red Mains voltage Tension du secteur	Vac	90-264 50/60 Hz					
	W	13					
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65					
Índice de protección Protection index Indice de protection		IP 50D					

900 TERRESTRIAL ANTENNAS

BOX OF 10 ANTENNAS BU-267 IN PLASTIC BAG



Code : **9000198**

Model : **GAN-267**

Description

The antennas supplied in a multiple pack are pre-mounted and individually packaged in a plastic bag which are then packed into a single carton box. A multiple pack will be supplied for each ordered unit. Orders should indicate the number of multiple packs and not the number of antennas.

Applications

The antennas in a multiple pack reduce the volume of each order, resulting in reduced transportation costs.

Characteristics

The electrical characteristics of the antennas in a multiple pack are identical to those of equivalent models.

904 BROADBAND AMPLIFIERS

AMP UHF-UHF-VHF/FM 2 OUTPUTS LTE700



Code : **9040141**

Model : **CA-360**

Description

Broadband amplifiers for head-end, compatible with transmission of LTE700 and LTE800 mobile telephone signals. Includes a rejection filter for LTE700/800 signals. Equipped with three inputs to amplify and combine the signals coming from the antennas. Power supplied automatically to preamplifier. Available on request in 125 and 240 V~.

Applications

Medium-sized individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. It is used as the head-end amplifier of the installation. The two outputs facilitate star-shaped distributions from the head-end through the use of splitters.

Characteristics

Made from ABS plastic, with an internal zamak chassis of which provides maximum shielding. F type connectors which affords a connection with minimum mismatching and high shielding. Power supply unit insulated from the rest of the high frequency circuit, complying with all safety standards. F-type connectors for screwing on or crimping.

CODIGO-CODE-CODE		9040141				
MODELO-MODEL-MODELE		CA-360				
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		3/2				
Rango de frecuencia Frequency range Gamme de fréquences	Band	BI	FM	BIII/DAB	UHF1	UHF2
	MHz	40-70	88-108	160-260	470-694	
Ganancia Gain Gain	dB ± TOL	32 ±1,0	22 ±1,0	32 ±1,0	42 ±2,0	
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20			16	
Test de salida Output test point Sortie test	dB ± TOL	-30 ±0,5				
Nivel de salida Output level Niveau de sortie	dBµV	2 x 110 DIN 45004B 2 x 107 (IMD ₃ -66 dB) 2 x 100 (IMD ₂ -60 dB)				
Figura de ruido Noise figure Facteur de bruit	dB ± TOL	5 ±1,5			6 ±1,5	
Desacoplo Isolation Découplage	dB	≥13				
Tensión de salida Output voltage Tension de sortie	V _{DC}	-			24	-
	mA	-			50	-
Tensión de red Mains voltage Tension de secteur	V _~	230 ±10% 50/60 Hz				
	VA	7				
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65				
Índice de protección Protection index Indice de protection		IP 20				

904 BROADBAND AMPLIFIERS

AMPLI UHF-UHF-BIII-BI/FM 2 OUT LTE700



Code : **9040146**

Model : **CA-362**

Description

Broadband amplifiers for head-end, compatible with transmission of LTE700 and LTE800 mobile telephone signals. Includes a rejection filter for LTE700/800 signals. Equipped with four inputs to amplify and combine the signals coming from the antennas. Power supplied automatically to preamplifier. Available on request in 125 and 240 V~.

Applications

Medium-sized individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. It is used as the head-end amplifier of the installation. The two outputs facilitate star-shaped distributions from the head-end through the use of splitters.

Characteristics

Made from ABS plastic, with an internal zamak chassis of which provides maximum shielding. F type connectors which affords a connection with minimum mismatching and high shielding. Power supply unit insulated from the rest of the high frequency circuit, complying with all safety standards. F-type connectors for screwing on or crimping.

CÓDIGO-CODE-CODE		9040146			
MODELO-MODEL-MODELE		CA-362			
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		4/2			
Rango de frecuencia Frequency range Gamme de fréquences	Band	BI/FM	BIII/DAB	UHF1	UHF2
	MHz	40-108	160-260	470-694	
Ganancia Gain Gain	dB ± TOL	20 ±1,0	20 ±1,0	30 ±1,0	
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20		16	
Nivel de salida Output level Niveau de sortie	dBµV	2 x 110 DIN 45004B 2 x 107 (IMD ₃ -66 dB) 2 x 100 (IMD ₂ -60 dB)			
Figura de ruido Noise figure Facteur de bruit	dB ± TOL	6,5 ±1,5		5,5 ±1,5	
Desacoplo Isolation Découplage	dB	≥13			
Tensión de salida Output voltage Tension de sortie	V \cdots	-		24	-
	mA	-		50	-
Tensión de red Mains voltage Tension de secteur	V~	230 ±10% 50/60 Hz			
	VA	7			
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65			
Índice de protección Protection index Indice de protection		IP 20			

904 BROADBAND AMPLIFIERS

AMP UHF-VHF/FM 2 OUTPUTS LTE700



Code : **9040147**

Model : **CA-361**

Description

Broadband amplifiers for head-end, compatible with transmission of LTE700 and LTE800 mobile telephone signals. Includes a rejection filter for LTE700/800 signals. Equipped with two inputs to amplify and combine the signals coming from the antennas. Power supplied automatically to preamplifier. Available on request in 125 and 240 V~.

Applications

Medium-sized individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. It is used as the head-end amplifier of the installation. The two outputs facilitate star-shaped distributions from the head-end through the use of splitters.

Characteristics

Made from ABS plastic, with an internal zamak chassis of which provides maximum shielding. F type connectors which affords a connection with minimum mismatching and high shielding. Power supply unit insulated from the rest of the high frequency circuit, complying with all safety standards. F-type connectors for screwing on or crimping.

CÓDIGO-CODE-CODE		9040147			
MODELO-MODEL-MODELE		CA-361			
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		2/2			
Rango de frecuencia Frequency range Gamme de fréquences	Band	BI	FM	BIII/DAB	UHF
	MHz	40-70	88-108	160-260	470-694
Ganancia Gain Gain	dB ± TOL	32 ±1,0	22 ±1,0	32 ±1,0	42 ±1,0
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20			16
Test de salida Output test point Sortie test	dB ± TOL	-30 ±0,5			
Nivel de salida Output level Niveau de sortie	dBμV	2 x 110 DIN 45004B 2 x 107 (IMD ₃ -66 dB) 2 x 100 (IMD ₂ -60 dB)			
Figura de ruido Noise figure Facteur de bruit	dB ± TOL	4 ±1,5			3 ±1,0
Desacoplo Isolation Découplage	dB	≥10			
Tensión de salida Output voltage	V _~	-			24
Tensión de salida Output voltage	mA	-			50
Tensión de red Mains voltage	V _~	230 ±10% 50/60 Hz			
Tensión de sector Tension de secteur	VA	7			
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65			
Índice de protección Protection index Indice de protection		IP 20			

904 BROADBAND AMPLIFIERS

AMPLIFIER UHF-BIII-BI/FM LTE700 EVEREST



Code : **9040148**

Model : **CA-661**

Description

Broadband amplifier for head-end, with three inputs and different frequency configurations, compatible with the transmission of LTE700 and LTE800 mobile telephone signals. The built-in power supply unit can feed a preamplifiers by means of a switch. Optional external power supply for redundant power. Output test-point to adjust the installation without having to disconnect the TV signal.

Applications

Large-scale digital and analogue MATV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of switches and regulators which control the gain at each input.

Characteristics

Made from zamak and galvanised steel plate to provide maximum shielding. Input and output connectors in the opposite sides to facilitate installation. F-type connectors.

CODIGO-CODE-CODE	9040148			
MODELO-MODEL-MODELE		CA-661		
Número de entradas/salidas/test Number of inputs/outputs/test Nombre d'entrées/sorties/test		3 / 1 / 1		
Rango de frecuencia Frequency range Gamme de frequences	Band	UHF	BIII/DAB	BI/FM
	MHz	470-694	160-260	47-108
Filtro LTE LTE Filter Filtre LTE		LTE700		
Ganancia Gain Gain	dB± TOL	45/30 ± 1,0 Switchable	32 ± 1,0	32 ± 2,0
Regulación de ganancia Gain adjustment Réglage de gain	dB	16	20	
Nivel de salida Output level Niveau de sortie	dBµV	117 DIN 45004B 114 (IMD3 -60 dB) 107 (IMD2 -60 dB)		
Figura de ruido Noise figure Facteur de bruit	dB	6 ±1,0	7 ±1,0	8 ±1,0
Tensión de salida Output voltage Tension de sortie	Vdc	24		
	mA	60		
Tensión de red Mains voltage Tension du secteur	Vac	99-264		
	W	7		
Tensión externa External voltage Tension externe	Vdc	24		
	mA	240		
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10 ... +65		
Índice de protección Protection index Indice de protection		IP 20		

904 BROADBAND AMPLIFIERS

AMPLI 3XUHF-BIII-BI/FM LTE700 EVEREST



Code : **9040149**

Model : **CA-663**

Description

Broadband amplifier for head-end, with five inputs and different frequency configurations, compatible with the transmission of LTE700 and LTE800 mobile telephone signals. The built-in power supply unit can feed a preamplifiers by means of a switch. Optional external power supply for redundant power. Output test-point to adjust the installation without having to disconnect the TV signal.

Applications

Large-scale digital and analogue MATV installations which are affected by the transmission of LTE700 and LTE800 mobile telephone signals. Suitable for installations where the channels of each band are received at similar levels. Adjustment by means of switches and regulators which control the gain at each input.

Characteristics

Made from zamak and galvanised steel plate to provide maximum shielding. Input and output connectors in the opposite sides to facilitate installation. F-type connectors.

CODIGO-CODE-CODE	9040149					
MODELO-MODEL-MODELE	CA-663					
Número de entradas/salidas/test Number of inputs/outputs/test Nombre d'entrées/sorties/test		5 / 1 / 1				
Rango de frecuencia Frequency range Gamme de frequences	Band	UHF1	UHF2	UHF3	BIII/DAB	BI/FM
	MHz	470-694			160-260	47-108
Filtro LTE LTE Filter Filtre LTE		LTE700				
Ganancia Gain Gain	dB± TOL	40/25 ± 1,0 Switchable		45/30 ± 1,0 Switchable	32 ± 1,0	32 ± 2,0
Regulación de ganancia Gain adjustment Réglage de gain	dB	16			20	
Nivel de salida Output level Niveau de sortie	dBµV	117 DIN 45004B 114 (IMD ₃ -60 dB) 107 (IMD ₂ -60 dB)				
Figura de ruido Noise figure Facteur de bruit	dB	12 ±1,0			7 ±1,0	8 ±1,0
Tensión de salida Output voltage Tension de sortie	Vdc	24				
	mA	60				
Tensión de red Mains voltage Tension du secteur	Vac	99-264				
	W	11,7				
Tensión externa External voltage Tension externe	Vdc	24				
	mA	410				
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10 ... +65				
Índice de protección Protection index Indice de protection		IP 20				

903 MAST AMPLIFIERS

AMP UHF-UHF-DAB/FM 32 DB LTE700 MAST

Code : **9030207**

Model : **AM-396**



Description

Broadband amplifiers for masts, compatible with LTE800 and LTE700 mobile signals (UHF amplification in the 470-694 MHz band). They have three inputs to amplify and combine the signals from the antennas. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE mobile phone signals and which require high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

903 MAST AMPLIFIERS

AMP UHF-DAB 40 DB LTE700 MAST

Code : **9030209**

Model : **AM-915**



Description

Broadband amplifiers for masts, compatible with LTE800 and LTE700 mobile signals (UHF amplification in the 470-694 MHz band). They have two inputs to amplify and combine the signals from the antennas. They have two outputs. They are fed through the coaxial cable from a power supply unit installed inside the building. They incorporate a switchable DC path, allowing power to be supplied to a preamplifier.

Applications

Individual digital and analogue terrestrial TV installations which are affected by the transmission of LTE mobile phone signals and which require very high gain. They amplify and mix the signals from several antennas. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, covered by a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide clamp, or on a wall. Resistant to sun and water (IP53). Greater insulation between inputs and outputs. F-type connectors for screwing or crimping.

Accessories

9030086 AL-100 +24 power supply unit. 9120039 CM-004 Male F connector for Ø6.6 mm coaxial. 9080023 MC-302 Male F connector for RG-6 coaxial, Ø7.0 mm. 9080030 MC-304 Male compression F connector for RG-6 coaxial Ø7.0 mm.

CÓDIGO-CODE-CODE		9030209	
MODELO-MODEL-MODELE		AM-915	
Número de salidas Number of outputs Nombre de sorties		2	
Número de entradas Number of inputs Nombre d'entrées		2	
Rango de frecuencia Frequency range Gamme de fréquences	Band MHz	DAB 160-260	UHF 470-694
Ganancia Gain Gain	dB	28	40
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20	16
Nivel de salida Output level Niveau de sortie	dBμV	2 x 108 2 x 105 2 x 93	DIN 45004B (IMD ₃ -66 dB) (IMD ₂ -60 dB)
Figura de ruido Noise figure Facteur de bruit	dB	5,0 ±1,0	3,5 ±1,0
Rechazo entre entradas Rejection between inputs Rejection entre entrées	dB	>30	
Alimentación Power supply Alimentation	V _{DC} mA	24 50	
Paso de corriente DC path Passage d'alimentation	V _{DC} mA	- -	24 50
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-20..+65	
Índice de protección Protection index Indice de protection		IP 53	

903 MAST AMPLIFIERS

KIT AMP AM-396 & POWER SUPPLY



Code : **9030208**

Model : **BO-396**

Description

Kits consisting of an AM-396 mast amplifier and an AL-100 power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

903 MAST AMPLIFIERS

KIT AMP AM-915 & POWER SUPPLY



Code : **9030210**

Model : **BO-915**

Description

Kits consisting of an AM-915 mast amplifier and an AL-100 power supply unit. Both products are included in a single pack.

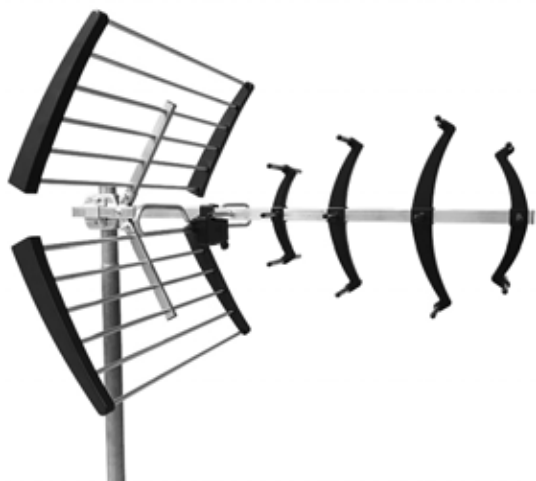
Characteristics

The characteristics are identical to those of the products which are supplied independently.

CÓDIGO-CODE-CODE		9030209	
MODELO-MODEL-MODELE		AM-915	
Número de salidas Number of outputs Nombre de sorties		2	
Número de entradas Number of inputs Nombre d'entrées		2	
Rango de frecuencia Frequency range Gamme de fréquences	Band	DAB	UHF
	MHz	160-260	470-694
Ganancia Gain Gain	dB	28	40
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20	16
Nivel de salida Output level Niveau de sortie	dB μ V	2 x 108 2 x 105 2 x 93	DIN 45004B (IMD ₃ -66 dB) (IMD ₂ -60 dB)
Figura de ruido Noise figure Facteur de bruit	dB	5,0 $\pm 1,0$	3,5 $\pm 1,0$
Rechazo entre entradas Rejection between inputs Rejection entre entrées	dB	>30	
Alimentación Power supply Alimentation	V \equiv	24	
	mA	50	
Paso de corriente DC path Passage d'alimentation	V \equiv	-	24
	mA	-	50
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-20..+65	
Índice de protección Protection index Indice de protection		IP 53	

900 TERRESTRIAL ANTENNAS

BOX OF 4 NEO-047 ANTENNAS IN PLASTIC BAG



Code : **9000199**

Model : **GA-047**

Description

Four NEO-047 antennas in individual plastic bags inside a single cardboard container. The antennas supplied in a multiple pack are pre-mounted and individually packaged in a plastic bag which are then packed into a single carton box. A multiple pack will be supplied for each ordered unit. Orders should indicate the number of multiple packs and not the number of antennas.

Applications

The antennas in a multiple pack reduce the volume of each order, resulting in reduced transportation costs.

Characteristics

The electrical characteristics of the antennas in a multiple pack are identical to those of equivalent models.

904 BROADBAND AMPLIFIERS

K2 AMP, UHF-UHF-VHF, 2 OUTPUTS, LTE700



Code : **9040152**

Model : **CA-370**

Head-end broadband amplifier with three inputs and two outputs. It has two UHF inputs with LTE700 rejection filters and another input for BI/FM/BIII/DAB. The two outputs have the same output level, with a maximum of 110 dB μ V, and facilitate the creation of star-shaped distributions using splitters.

UHF1 input can power 24V preamplifiers with up to 60 mA. The installer can easily switch the preamplifier power on and off.

The amplifier is powered with an external power supply, included with the product. It is also sold separately as FF-300 as a spare part, to be used for maintenance or repairs.

Its zamak chassis provides the amplifier with maximum shielding, while also making it very robust. The F-type connections also allow for minimum load mismatch and maximum shielding.

CÓDIGO-CODE-CODE		9040152				
MODELO-MODEL-MODÈLE		CA-370				
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		3/2				
Rango de frecuencia Frequency range Gamme de fréquences	Band	BI	FM	BIII/DAB	UHF1	UHF2
	MHz	40-70	88-108	160-260	470-694	
Ganancia Gain Gain	dB ±TOL	28 ±2	18 ±2	28 ±2	38 ±2	
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20			16	
Test de salida Output test point Sortie test	dB ±TOL	-30 ±2				
Nivel de salida Output level Niveau de sortie	dBµV	2 x 110 DIN 45004B 2 x 107 (IMD3 -66 dB) 2 x 100 (IMD2 -60 dB)				
Figura de ruido Noise figure Facteur de bruit	dB ±TOL	5 ±1,5			6 ±1,5	
Desacoplo Isolation Découplage	dB	≥13				
Tensión de salida Output voltage Tension de sortie	V-	-			24	-
	mA	-			50	-
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65				
Índice de protección Protection index Indice de protection		IP 20				

DIN 45004B: 3 unequal carriers, IMD3 at 60 dB

IMD3 -66 dB: 3 unequal carriers, EN 60728-5

IMD2 -60 dB: 2 equal carriers, EN 60728-5

Data published in compliance with the definitions and measurement methods of the following standards: EN 60728-3, EN-60728-4 and EN 60728-5

Se debe cargar la salida no utilizada con una carga RS-275 (COD. 9120011).

The unused output should be loaded with an RS-275 (COD. 9120011) load.

La sortie non utilisée doit être chargée avec une charge RS-275 (COD. 9120011).

904 BROADBAND AMPLIFIERS

K2 AMPLI, UHF-VHF, 2 OUTPUTS, LTE700

Code : **9040153**

Model : **CA-371**



Head-end broadband amplifier with three inputs and two outputs. It has two UHF inputs with LTE700 rejection filters and another input for BI/FM/BIII/DAB. The two outputs have the same output level, with a maximum of 110 dBμV, and facilitate the creation of star-shaped distributions using splitters.

UHF1 input can power 24V preamplifiers with up to 60 mA. The installer can easily switch the preamplifier power on and off.

The amplifier is powered with an external power supply, included with the product. It is also sold separately as FF-300 as a spare part, to be used for maintenance or repairs.

Its zamak chassis provides the amplifier with maximum shielding, while also making it very robust. The F-type connections also allow for minimum load mismatch and maximum shielding.

CÓDIGO-CODE-CODE		9040153			
MODELO-MODEL-MODÈLE		CA-371			
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		2/2			
Rango de frecuencia Frequency range Gamme de fréquences	Band	BI	FM	BIII/DAB	UHF
	MHz	40-70	88-108	160-260	470-694
Ganancia Gain Gain	dB ±TOL	28 ±2	18 ±2	28 ±2	38 ±2
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	20			16
Test de salida Output test point Sortie test	dB ±TOL	-30 ±2			
"Nivel de salida Output level Niveau de sorti	dBµV	2 x 110 DIN 45004B 2 x 107 (IMD3 -66 dB) 2 x 100 (IMD2 -60 dB)			
Figura de ruido Noise figure Facteur de bruit	dB ±TOL	5 ±1,5			6 ±1,5
Desacoplo Isolation Découplage	dB	≥13			
Tensión de salida Output voltage Tension de sortie	V-	-			24
	mA	-			50
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65			
Índice de protección Protection index Indice de protection		IP 20			

DIN 45004B: 3 unequal carriers, IMD3 at 60 dB

IMD3 -66 dB: 3 unequal carriers, EN 60728-5

IMD2 -60 dB: 2 equal carriers, EN 60728-5

Data published in compliance with the definitions and measurement methods of the following standards: EN 60728-3, EN-60728-4 and EN 60728-5

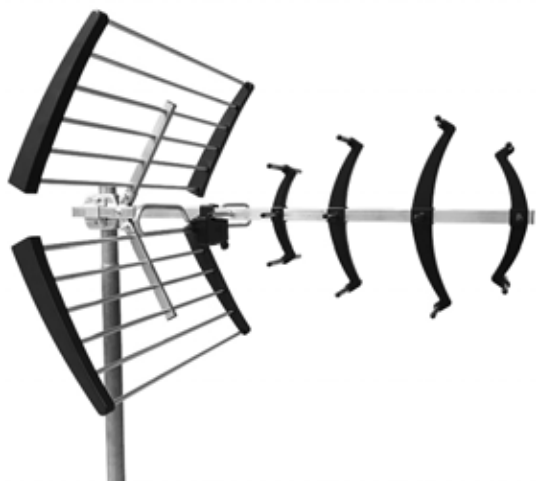
Se debe cargar la salida no utilizada con una carga RS-275 (COD. 9120011).

The unused output should be loaded with an RS-275 (COD. 9120011) load.

La sortie non utilisée doit être chargée avec une charge RS-275 (COD. 9120011).

900 TERRESTRIAL ANTENNAS

ANTENNA NEO CHANNELS 21/48 REJ, G = 16DB



Code : **9000200**

Model : **NEO-042**

Antenna for optimal reception of DTT channels, with a high gain (16 dBi). Designed to cover the UHF band up to 694 MHz while rejecting 4G and 5G telephone bands thanks to its built-in rejection filter. Easy to mount and adjust, providing maximum robustness and ensuring complete safety of installation. Stylish design that reflects the excellent electrical and mechanical qualities of the antenna.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is necessary and high gain and directivity are required. The reflectors prevent interference produced by the signals received from the rear of the antenna.

Characteristics

Rejection of LTE700, LTE800 and GSM signals. Manufactured in aluminum, zamak, weather-resistant plastic and galvanised steel. Includes a matching transformer with built in rejection filter, with F-type connector, protected inside a watertight casing (IP55). No tools required for installation. Supplied in an individual pack.

CODIGO-CODE-CODE		9000200	9000189
MODELO-MODEL-MODELE		NEO-042	NEO-047
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470 -694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	16	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/detrás Front/back ratio Rapport avant/arriere	dB	30	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	48	
	° V	58	
Longitud Lenght Longueur	mm	800	
Resistencia al viento Wind loading Résistance au vent	N	H	105
		V	92
Índice de protección Protection index Indice de protection		IP 53	

900 TERRESTRIAL ANTENNAS

ANTENNA NEO, CHANNELS 21/48 REJ, G=18DB

Code : **9000201**

Model : **NEO-082**



Antenna for optimal reception of DTT channels, with the best available gain (18 dBi). Designed to cover the UHF band up to 694 MHz while rejecting 4G and 5G telephone bands thanks to its built-in rejection filter. Easy to mount and adjust, providing maximum robustness and ensuring complete safety of installation. Stylish design that reflects the excellent electrical and mechanical qualities of the antenna.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is necessary and high gain and directivity are required. The reflectors prevent interference produced by the signals received from the rear of the antenna.

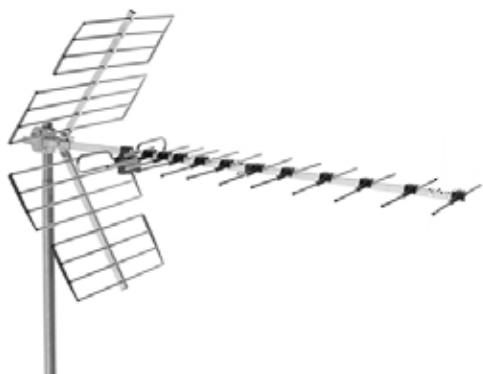
Characteristics

Rejection of LTE700, LTE800 and GSM signals. Manufactured in aluminum, zamak, weather-resistant plastic and galvanised steel. Includes a matching transformer with built in rejection filter, with F-type connector, protected inside a watertight casing (IP55). No tools required for installation. Supplied in an individual pack.

CODIGO-CODE-CODE		9000201	9000187
MODELO-MODEL-MODELE		NEO-082	NEO-087
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470 -694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	18	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/detrás Front/back ratio Rapport avant/arriere	dB	32	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	30	
	° V	28	
Longitud Lenght Longueur	mm	1160	
Resistencia al viento Wind loading Résistance au vent	N	H	125
		V	95
Índice de protección Protection index Indice de protection		IP 55	

900 TERRESTRIAL ANTENNAS

ANTENNA, CHANNELS 21/48 REJ, G = 14 DB



Code : **9000202**

Model : **BU-452**

Double array antenna designed to cover the UHF band up to 694 MHz while rejecting 4G and 5G telephone bands, thanks to its built-in rejection filter. Fast and easy assembly: all the parts are premounted and no tools are required for their assembly. BU-452 antennas are supplied in individual packs, but are also available in multiple packs using the reference GA-452.

Applications

Digital and analogue terrestrial TV installations, collective or individual, where rejection of the LTE700 and LTE800 bands is necessary.

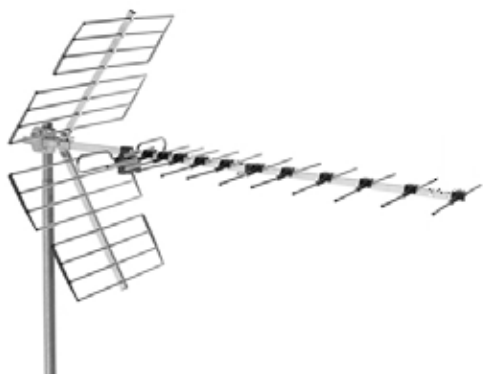
Characteristics

Rejection of LTE700, LTE800 and GSM signals, as well as of signals coming from the bottom of the antenna. Robust antenna with great resistance to both sun and saltpetre. Manufactured in aluminum, weather-resistant plastic and galvanised steel. Elevation angle adjustment, mounting in either horizontal or vertical polarity. Includes a matching balun (symmetrizer) with built-in rejection filter and an F-type connector, all protected inside the balun box.

CODIGO-CODE-CODE		9000202	9000111
MODELO-MODEL-MODELE		BU-452	BU-457
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470-694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	14	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/ detrás Front/back ratio Rapport avant/ arriere	dB	25	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	28	
	° V	34	
Longitud Lenght Longueur	mm	1298	
Resistencia al viento Wind loading Résistance au vent	N	H	89
		V	94
Índice de protección Protection index Indice de protection		IP 53	

900 TERRESTRIAL ANTENNAS

BOX OF 5 BU-452 ANTENNAS IN PLASTIC BAGS



Code : **9000203**

Model : **GA-452**

Box containing 5 BU-452 antennas in individual plastic bags.

A box containing 5 BU-452 antennas will be supplied for each GA-452 that is ordered. Orders should indicate the number of boxes with antennas, and not the number of antennas.

The antennas in this kind of packaging reduce the volume of each order, resulting in reduced transportation costs, while taking up a smaller storage space.

CODIGO-CODE-CODE		9000202	9000111
MODELO-MODEL-MODELE		BU-452	BU-457
Rango de frecuencias Frequency range Gamme de fréquences	MHz	470 -694	
Canales Channels Canaux		21-48	
Ganancia Gain Gain	dBi	14	
Rechazo LTE700 LTE700 rejection Rejet LTE700	dB	40	10
Relación delante/ detrás Front/back ratio Rapport avant/ arriere	dB	25	
Impedancia Impedance Impédance	Ω	75	
Pérdidas de retorno Return loss Pertes de retour	dB	≥ 10	
Polarización Polarity Polarisation		HOR /VER	
Ángulo de apertura Beam width Angle d'ouverture	° H	28	
	° V	34	
Longitud Lenght Longueur	mm	1298	
Resistencia al viento Wind loading Résistance au vent	N	H	89
		V	94
Índice de protección Protection index Indice de protection		IP 53	

904 BROADBAND AMPLIFIERS

DIG PROG AMP 3XUHF-1XVHF-FM MONT BLANC

Code : **9040159**

Model : **CAD-703**

Description

High selectivity programmable compact headend to digitally filter, convert and equalize DVB-T/T2 channels. The built-in high output amplifier allows the use in small or medium buildings installation.

Characteristics

Compact headend of 5 Inputs, auto-scan function, LTE700 SAW filters, up to 64 high selectivity filters with ACG, converts up to 32 single channels, 24 Digits LCD display, can be remotely powered from its output.



CÓDIGO-CODE-CODE		9040159
MODELO-MODEL-MODELE		CAD-703
Número de entradas Number of inputs Nombre d'entrées		3 x UHF 1 x BIII/DAB 1 x FM/BI
Rango de frecuencias Frequency range Gamme de fréquences	MHz	UHF (470-694) BIII/DAB (170-240) FM/BI (40-108)
Filtros programables Programmable filters Filtres programmables		32
Número de canales por filtro Number of channels per filters Nombre de canaux par filtre		1..2
Nivel de entrada Input level Niveau d'entrée	dBµV	UHF 45..100 BIII/DAB 40..110 FM 35..90
Preamplificador de entrada Input preamplifier Préamplificateur d'entrée	dB	UHF 0/+10 (OFF/ON) BIII/DAB 0/+20 (OFF/ON)
Atenuador de entrada Input attenuator Atténuateur d'entrée	dB	0/-12/-24
Rango CAG AGC range Plage CAG	dB	40
Selectividad Selectivity Sélectivité	dB	35@1MHz

CODIGO-CODE-CODE		9040159
MODELO-MODEL-MODELE		CAD-703
Ganancia Gain Gain	dB	UHF 60 BIII/DAB 50 BI/FM 24
Nivel de salida Max output level Niveau maximum de sortie	dBμV	120 (IM3 DIN 45004B -60 dBc) 93-113 adjustable
Pérdidas de retorno entrada/salida Return loss in/out Pertes de retour entrée/sortie	dB	>12
Test de salida Test output Test de sortie		1 (-30dB)
Conector USB USB connector Connecteur USB		USB 1.0/2.0 Tipo B
Tensión de salida Output voltage Tension de sortie		12/24V, 100mA
Tensión de red Mains voltage Tension du secteur		230 VAC +/-20%, 8W max DC 15V, 0,53A
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-5...50
Dimensiones del producto Product size Dimensions du produit	mm	193 x 148 x 36

904 BROADBAND AMPLIFIERS

DIGITAL TV-SAT AMPLIFIER

Code : **9040154**

Model : **CAD-713**

Description

Programmable compact amplifier for terrestrial and satellite TV. Digitally filters, converts and balances DVB-T/T2 channels with high selectivity filters. Broadband amplifier for one satellite polarity. The built-in high-performance amplifier allows for use in medium or small buildings.

Characteristics

Compact headend with 5 inputs, auto-scan function, LTE700 SAW filters, high selectivity filters with ACG for up to 64 channels, converts up to 32 single channels, 24 Digits LCD display, can be remotely powered from its output. Reading of the terrestrial TV input level, no field meter is needed.



CODE		9040154
MODEL		CAD-713
TERRESTRIAL		
Number of inputs		2 x UHF 1 x BIII/DAB 1 x FM/BI
Frequency range	MHz	UHF (470-694) BIII/DAB (170-240) FM/BI (40-108)
Programmable filters		32
Number of channels per filters		1 .. 2
Input level	dBμV	UHF 45 .. 100 BIII/DAB 40 .. 110 FM 35 .. 90
Input preamplifier	dB	UHF 0/+10 (OFF/ON) BIII/DAB 0/+20 (OFF/ON)
Input attenuator	dB	0/-12/-24
AGC range	dB	40
Selectivity	dB	35@1MHz
Gain	dB	UHF 60 BIII/DAB 50 BI/FM 0/12/24
Max output level	dBμV	2 x 116 (IM3 DIN 45004B -60 dBc) 89-109 adjustable
Output voltage		12/24V, 100mA
SATELLITE		
Number of inputs		1
Frequency range	MHz	950-2200
Input level	dBμV	60 .. 100
Gain	dB	38
Gain adjustment	dB	0 .. -20
Adjustable equalization range	dB	0 .. -7
Max output level	dBμV	119
LNB Power supply		13/18V 0/22kHz 600mA
GENERAL		
Return loss in/out	dB	>12
USB connector		USB 1.0/2.0 Type B
Mains voltage		100 .. 240 VAC, 9W max DC 20V, 0,45A
Operating temperature	°C	-5 .. 50
Product size	mm	193 X 148 X 36

903 MAST AMPLIFIERS

KIT AMP AM-696 & POWER SUPPLY AL-245



Code : **9030211**

Model : **BO-696**

Description

Kits consisting of a mast amplifier and a power supply unit. Both products are included in a single pack.

Characteristics

The characteristics are identical to those of the products which are supplied independently.

CÓDIGO-CODE-CODE		9030211
MODELO-MODEL-MODÈLE		BO-696
Included amplifier		AM-696
Included power supply		AL-245
Mains voltage	V~	85-265

903 MAST AMPLIFIERS

AMP SAT-UHF-DAB/FM 32 DB MAT



Code : **9030212**

Model : **AM-696**

Description

Broadband amplifiers for masts, amplifies the signal from terrestrial antennas and multiplexes the satellite signal. Powered through the coaxial cable from a power supply unit installed inside the building. The LNB is controlled by the control signal coming from the satellite set-top-box. It incorporates a switchable DC path, allowing power to be supplied to an antenna preamplifier. Compatible with LTE700 and LTE800 mobile telephone signals. UHF Amplification band 470-694 MHz.

Applications

Individual terrestrial and satellite TV installations, digital and analogue. It amplifies the signal from two terrestrial antennas and combines the signals along with the satellite signal. The signal obtained can be distributed to a large number of TV outlets by means of a single coaxial cable.

Characteristics

Shielded zamak chassis, with a weather-resistant plastic casing. Easy to open and close, the chassis can be tilted to facilitate manipulation. It can be installed either on a mast, by means of a polyamide zip tie, or on a wall. Resistant to sun and water (IP53). F-type compression or screwing connectors.

CÓDIGO-CODE-CODE		9030212			
MODELO-MODEL-MODÈLE		AM-696			
Número de entradas/salidas Number of inputs/outputs Nombre d'entrées/sorties		3			
Rango de frecuencia Frequency range Gamme de fréquences	Band	FM	DAB	UHF	SAT
	MHz	88-108	160-260	470-694	950-2150
Ganancia Gain Gain	dB	20		32	-2,0
Regulación de ganancia Adjustable gain range Plage de réglage du gain	dB	16		20	-
Nivel de salida Output level Niveau de sortie	dBµV	180 DIN 45004B 105 IMD ₃ -66 dB			-
Figura de ruido Noise figure Facteur de bruit	dB	6,0 ±1		4,0 ±1	-
Rechazo entre entradas Rejection between inputs Rejection entre entrées	dB	≥30			
Alimentación Power supply Alimentation	V _~	12-18			
	mA	125 + LNB + preamplifier			
Paso de corriente DC path Passage d'alimentation	- V _~	-	24	12	STB Power 13/18 0/22 kHz
	mA	-	30	300	
Temperatura de funcionamiento Operating temperature Température de fonctionnement	°C	-10..+65			
Índice de protección Protection index Indice de protection		IP 53			

DIN 45004B: 3 unequal carriers, IMD₃ at 60 dB
IMD3 -66 dB: 3 unequal carriers, EN 60728-5

BO-696 = AM-696 + AL-100 (COD. 9030211)

Soluciones de entretenimiento, seguridad y telecomunicaciones en el ámbito del hogar y de la vivienda del futuro y de edificios no residenciales
Entertainment, security and telecommunications solutions in the field of home and housing of the future and non-residential buildings
Solutions de divertissement, de sécurité et de télécommunications dans le domaine de la maison et du logement du futur et les bâtiments non résidentiels

