

905

## MAST AMPLIFIERS

LTE (470-694 MHz) Compatible Amplifiers, 12 V $\overline{\text{DC}}$ , 1 or 2 inputs**Description**

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-694 MHz. They have one or two inputs 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	$\pm 1$		$\pm 2$	$\pm 1$		$\pm 2$
Adjustable gain range	dB	20		16	20		16
Output level	dB $\mu$ V	108 DIN 45004B 105 (IMD <sub>3</sub> -66dB) 95 (IMD <sub>2</sub> -60dB)					
Return loss	dB	$\geq 10$					
Noise figure	dB	5,0 $\pm 1,0$		3,5 $\pm 1,0$		5,0 $\pm 1,0$	3,5 $\pm 1,0$
Rejection between inputs	dB	>30					
Power supply	V $\overline{\text{DC}}$	12					
	mA	45					
Operating temperature	$^{\circ}$ C	-10.. 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		