



AM-160

Description

Broadband amplifiers for masts, compatible with LTE mobile telephone signals with amplification band in UHF 470-790 MHz. They have one or 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 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.

Accessories

9030086	AL-100	24 V \pm power supply unit.
9120039	CM-004	Male F connector for $\varnothing 6.6$ mm coaxial.
9080023	MC-302	Male F connector for RG-6 coaxial, $\varnothing 7.0$ mm.
9080030	MC-304	Male compression F connector for RG-6 coaxial, $\varnothing 7.0$ mm.

CODE		9030165	9030166			9030172			
MODEL		AM-160	AM-262			AM-362			
Connection			F female						
Inputs		1	2			3			
Frequency range	Band	UHF	FM	DAB	UHF	FM	DAB	UHF1	UHF2
	MHz	470-790	88-108	160-260	470-790	88-108	160-260	470-790	470-790
Gain	dB \pm	20	10		20	10		20	
Flatness response	dB	± 2	± 1		± 2	± 1		± 2	
Adjustable gain range	dB	16	20		16	20		16	
Output level	dB μ V		108 (DIN 45004B) 105 (IMD3 - 66 dB) 93 (IMD2 - 60 dB)						
Return loss	dB	≥ 10	≥ 10			≥ 10			
Noise figure	dB	3 ± 1	5 ± 1		3 ± 1	5 ± 1		$5,5 \pm 1$	
Rejection between inputs	dB		≥ 30						
Power supply	V \pm		24						
	mA		30						
Switchable DC path	V \pm	24	-		24	-		24	
	mA	50	-		50	-		50	
Operating temperature	$^{\circ}$ C		-10...+65						
Protection index			IP 53						
Units per packaging		1	1			24			
Packing weight	Kg	0.22	0.22			5.78			
Packing dimensions	mm	110 x 125 x 45	110 x 125 x 45			345 x 200 x 280			

DIN 45004B: 3 unequal carriers, IMD3 at 60 dB
 IMD3 - 66 dB: 3 unequal carriers, EN 50083-5
 IMD2 - 60 dB: 2 equal carriers, EN 50083-5

The AM-160, AM-262 and AM-362 amplifiers are available in kit format (see page 65).