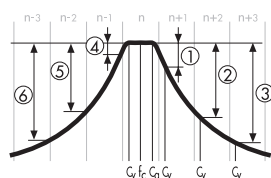


# CE 905-ZP AMPLIFICATION EQUIPMENT "NEW DESIGN" SERIES 905

## Adjacent monochannel amplifiers



ZP-431

### Description

Monochannel amplifier for the UHF band designed to work with adjacent channels. It has a high selectivity which permits equalize each channel independently. The channel should be specified in the order.

### Applications

Medium to large digital and analogue terrestrial MATV installations where adjacent analogue or digital channels exist. The different channels can be treated independently with this module, which results in a perfect equalisation of all the received channels.

### Characteristics

Each module consists of a three-stage input filter, an amplifier and an output filter which is three-stage, the filters are cavities. Filters remain highly stable with variations in temperature. Attenuator using an active MOSMIC regulator reduces the noise figure. 30dB multiturn attenuator. Switch to supply power to preamplifiers with protection against short circuits.

CODE		9050092	
MODEL		ZP-431	
TV system		AM-TV / DVB-T	
Connection		F female	
Number of channels		1	
Frequency range	Band	UHF	
	MHz	470-862	
Gain	dB $\pm$ TOL	39 $\pm$ 3.0	
Adjustable gain range	dB	30	
Maximum output level	dB $\mu$ V	115.0 DIN 45004K	
		115.0 (IMD <sub>3</sub> -54 dB) AM-TV 110.0 (IMD <sub>3</sub> -35 dB) DVB-T	
Selectivity	dB	P <sub>n</sub> - P <sub>n<math>\pm</math>1</sub>	15.5
		P <sub>n</sub> - P <sub>n<math>\pm</math>2</sub>	61.0
		f <sub>c</sub> - f <sub>c<math>\pm</math>4</sub> MHz	7.5
		f <sub>c</sub> - f <sub>c<math>\pm</math>12</sub> MHz	58.0
Noise figure	dB	10 $\pm$ 2.0	
Return loss	dB	$\geq$ 10	
Output voltage	V <sub>DC</sub>	+24	
	mA	33	
Power supply	V <sub>DC</sub>	+24	
	mA	45	
Operating temperature close to equipment	$^{\circ}$ C	-10..+65	
Room temperature whit/whitout fan	$^{\circ}$ C	-10..+55/+45	
Protection index		IP 20	
Units per packing		1	40
Packing weight	Kg	0.38	15.9
Packing dimensions	mm	196 x 76 x 32	385 x 385 x 225

DIN 45004K: 3 unequal carriers, IMD<sub>3</sub> at 54 dB  
 IMD<sub>3</sub> -54 dB: 3 unequal carriers, EN 50083-5  
 IMD<sub>3</sub> -35 dB: 2 equal carriers

C<sub>n</sub> - C<sub>n $\pm$ 1</sub>: C<sub>V<sub>n</sub></sub> - C<sub>A<sub>n</sub></sub> - 1  $\circ$  C<sub>A<sub>n</sub></sub> - C<sub>V<sub>n</sub></sub> + 1  
 C<sub>n</sub> - C<sub>n $\pm$ 2</sub>: C<sub>V<sub>n</sub></sub> - C<sub>A<sub>n</sub></sub> - 2  $\circ$  C<sub>A<sub>n</sub></sub> - C<sub>V<sub>n</sub></sub> + 2

Gain and noise figure after applying gain reduction by diplexing.