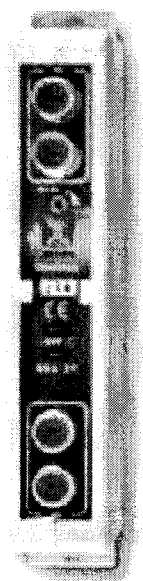


905 905-ZP AMPLIFICATION EQUIPMENT

Adjacent monochannel amplifiers



Description

Monochannel amplifier for the UHF band designed to work with adjacent channels. It has high selectivity which permits the independent equalisation of each adjacent channel. 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

Specific design for adjacent channels, an optimum compromise between image and sound quality and equalisation capacity can be achieved due to the high selectivity of the equipment. Each module consists of 3 input filters, amplifier and 2 output filters – all the filters are cavities. There is an attenuator between stages to reduce the noise figure. Supplied with the multiplexing bridge and power cable.

CODE		9050040	
MODEL		ZP-421	
TV system		AM-TV / DVB-T	
Connection		IEC female 9.5 mm Ø	
Number of channels		1	
Frequency range	Band	UHF	
	MHz	470-862	
Gain	dB±TOL	40 ±3.0	
Adjustable gain range	dB	20	
Gain loss with splitting	dB	3.5	
Maximum output level	dBµV	113.0 DIN 45004K 113.0 (IMD ₃ -54 dB) AM-TV 108.0 (IMD ₃ -35 dB) DVB-T	
Selectivity	dB	P _n - P _{n±1}	14,5
		P _n - P _{n±2}	53,5
		f _c - f _{c±4} MHz	7,5
		f _c - f _{c±8} MHz	50,5
Noise figure	dB	7	
Return loss	dB	≥ 10	
Power supply	V _~	24	
	mA	45	
Operating temperature	°C	-10...+65	
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, IMD₃ at 54 dB

IMD₃ -54 dB: 3 unequal carriers, EN 50083-5

IMD₃ -35 dB: 2 unequal carriers, EN 50083-5

C_n - C_{n±1}: C_{Vn} - C_{AN-1} or C_{AN} - C_{Vn+1}

C_n - C_{n±2}: C_{Vn} - C_{AN-2} or C_{AN} - C_{Vn+2}