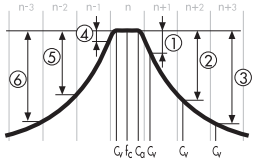
905 AMPLIFICATION EQUIPMENT 905-ZG

Monochannel amplifiers



ZG-611

Description

Monochannel amplifiers designed to work with non-adjacent channels. The different modules cover the I, III and interband bands. Supplied for all the standards and tables of channels. High gain and output level. The channel should be specified in the order.

Applications

Large, digital and analogue terrestrial MATV installations. The modules cover all the terrestrial reception signals and the interbands for channels generated locally from SAT, DVD, videos or security cameras.

Characteristics

Each module consists of a three-stage input filter, an amplifier and an output filter which is three-stage in the higher interband and two-stage in other bands. In the higher interband, 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			9050074		
MODEL			ZG-611		
TV System			AM-TV / DVB-T		
Connection			F female		
Number of channels			1		
Frequency range	Band		BI	BIII	Interbands
	MHz		42-70	174-231	68-175 230-470
Gain	dB±TOL		52 ±3,0		
Adjustable gain range	dB		30		
Maximun output level	dBµV		2x123.5 DIN 45004K 2x123.5 (IMD_3 - 54dB) AM-TV 2x118.5 (IMD_3 - 35dB) DVB-T		
Selectivity	dB	$P_n - P_{n\pm2}$	34	30	28
		$P_n - P_{n\pm3}$	50	45	42
		$f_c - f_{c\pm12MHz}$	30	27	25
Noise figure	dB		9 ±2,0		
Return loss	dB		≥ 10		
Output voltage	V⎓		+24		
	mA		33		
Power supply	V⎓		+24		
	mA		80		
Operating temperature close to quipment	ºC		-10..+65		
Room temperature with/ without fan	ºC		-10..+55/+45		
Protection index			IP 20		
Units per packaging			1	40	
Packing weight	Kg		0.39	16.3	
Packing dimensions	mm		196 x 76 x 32	385 x 385 x 225	

DIN 45004K: 3 unequal carriers, IMD_3 at 54 dB
IMD_3 -54 dB: 3 unequal carriers, EN 50083-5
IMD_3 -35 dB: 2 unequal carriers, EN 50083-5

$C_n - C_{n\pm2}$: $CV_n - CA_{n-2}$ o $CA_n - CV_{n+2}$
$C_n - C_{n\pm3}$: $CV_n - CA_{n-3}$ o $CA_n - CV_{n+3}$

Gain and noise figure after applying gain reduction by diplexing.