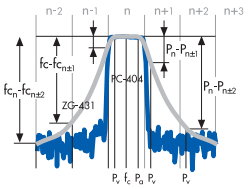
SERIES

905 905-PC CHANNEL PROCESSING EQUIPMENT

Channel processors



PC-404

Description

Channel processor for the UHF band, designed to work with adjacent digital and analogue channels. High selectivity and automatic gain control (AGC). For B/G, I, D/K and L standards.

Applications

For use in MATV installations of digital and analogue terrestrial TV where adjacent digital or analogue channels exist with very different levels. By selecting the same input and output channel, the processor works as a filter with AGC, handling the channels independently and eliminating interference. In this way, a perfect equalisation is obtained of all the channels received. By selecting different input and output channels, the processor functions as a programmable digital or analogue channel converter.

Characteristics

Each module consists of an intermediate frequency converter, a double surface acoustic wave filter (SAW) and channel converter. Adjustable frequency for analogue channels in steps of 250KHz, or for digital channels in steps of 1/6 of a MHz. Automatic gain control (AGC) of 30 dB. Permits a feed path to supply power to preamplifiers.

CODE			9050068	
MODEL			PC-404	
Connection			F female	
TV system			AM-TV / DVB-T	
Input frequency range	MHz		470-862	
Output frequency range	MHz		470-862	
Band width	MHz		8	
Frequency step I/O	MHz		0.25 AM-TV 1.0 DVB-T	
I/O offset	MHz		-3/6, -2/6, -1/6, 0, 1/6, 2/6, 3/6 DVB-T	
Input level	dBµV	max.	92 AM-TV 82 DVB-T (dif. 0dB)	85 AM-TV 82 DVB-T (dif. 16dB)
		min.	62 AM-TV 52 DVB-T	
Output level	dBµV		80 ±3.0 AM-TV 70 ±3.0 DVB-T	
Output level stability	dB		<1	
Automatic gain control	dB		30 Typic	
Selectivity	dB	P_n-$P_{n\pm1}$ P_n-$P_{n\pm2}$	78 AM-TV 80	
		f_c - f_c± 4 MHz f_c - f_c± 8 MHz	3 DVB-T 80	

Further specification on the following page

C_n - $C_{n\pm1}$: CV_n - CA_n - 1 o CA_n - CV_n + 1
C_n - $C_{n\pm2}$: CV_n - CA_n - 2 o CA_n - CV_n + 2

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905-PC CHANNEL PROCESSING EQUIPMENT

PC-404

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CODE			9050068	
MODEL			PC-404	
Channel flatness response	dB		±0.75	
Freaquency stability	KHz		±25	
Multiplexing/diplexing through loss	dB		1.2 ±0.1	
Noise figure	dB		13.5 ±1.0	
Spurious in band	dB		<58	
Return loss	dB		>14	
Phase noise	dBc/Hz		72 @ 1KHz 85 @ 10KHz	
Equivalent noise degradation	dB		<1,2	
DC path	V⎓		24	
	mA		110	
Power supply	V⎓		+5.7	+24
	mA		350	32
Operating temperature close to equipment	°C		-10..+65	
Room temperature with/without fan	°C		-10..+55/ +45	
Protection index			IP 20	
Units per packing			1	
Packing weight	Kg		1,07	
Packing dimensions	mm		270 x 170 x 38	

Dif. Difference in levels with regard to adjacent channels.

Programmable with programmer PS-003 version 3.1 and later.