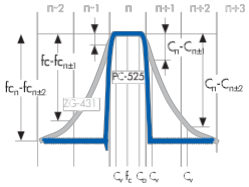
905 CHANNEL PROCESSING EQUIPMENT 905-PC

Channel processors



PC-525

Description

Channel processor for the UHF band, designed to work with adjacent digital and analogue channels. High selectivity and automatic gain control (AGC). Compatible 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			9050146
MODEL			PC-525
Connection			F female
TV System			AM-TV / DVB-T
Input frequency range	MHz		47-862
Output frequency range	MHz		47-862
Bandwidth	MHz		7/8
Frequency step I/O	MHz		0.25 AM-TV 0.5 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.	85 AM-TV 75 DVB-T (dif. 16dB)
		min.	55 AM-TV 45 DVB-T
Output level	dBµV		83 ±3,0
Output level stability	dB		±1
Output level adjustment	dB		25
Automatic gain control	dB		>30
Selectivity	dB	f_C - $f_{C\pm3,75\ MHz}$ f_C - $f_{C\pm7\ MHz}$	>7 7 MHz >80 Bandwidth
		f_C - $f_{C\pm4.25\ MHz}$ f_C - $f_{C\pm8\ MHz}$	>19 8 MHz >80 Bandwidth

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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CE

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PC-525

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CODE		9050146			
MODEL		PC-525			
Channel flatness response	dB	±1			
Frequency stability	KHz	±20			
Multiplexing/diplexing through loss	dB	1.4 ±0,2 / 0.8 ±0,2			
Noise figure	dB	13.5 ±1,0			
Superious in band	dB	<58			
Return loss	dB	>14			
Phase noise	dBc/Hz	80 @ 1KHz 84 @ 10KHz 99 @ 100KHz			
Equivalent noise degradation	dB	<1.0			
DC path	V⎓	24			
	mA	60			
Power supply	V⎓	3.3	5.2	12.0	24.0
	mA	350	250	120	0+Preamp.
Operating temperature close to equipment	ºC	-10..+65			
Room temperature with/ without fan	ºC	-10..+55/+45			
Protection index		IP 20C			
Units per packaging		1			
Packing weight	Kg	1,16			
Packing dimensions	mm	265 x 165 x 40			

Difference in levels with regard to adjacent channels.

Programmable with PS-011