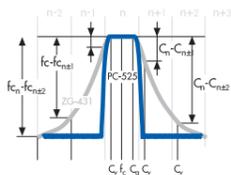


# 905 CHANNEL PROCESSING EQUIPMENT 905-PC

## 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.



PC-525

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	$f_c - f_{C\pm 3,75 \text{ MHz}}$	>7 7 MHz Bandwidth
		$f_c - f_{C\pm 7 \text{ MHz}}$	>80
		$f_c - f_{C\pm 4,25 \text{ MHz}}$	>19 8 MHz Bandwidth
Channel flatness response	dB	±1	

$$C_n - C_{n\pm 1}: CV_n - CA_n - 1 \text{ o } CA_n - CV_{n+1}$$

$$C_n - C_{n\pm 2}: CV_n - CA_n - 2 \text{ o } CA_n - CV_{n+2}$$

CODE		9050146			
MODEL		PC-525			
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			
		V---	24		
DC path	mA	60			
	V---	3.3	5.2	12.0	24.0
Power supply	mA	350	250	120	0+Preamp.
	°C	-10..+65			
Operating temperature close to equipment	°C	-10..+55/+45			
Room temperature with/without fan	°C	-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