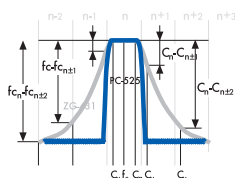




PC-525



Description

Channel processor for the UHF band, designed to work with adjacent digital and analogue channels. High selectivity and automatic gain control (AGC). 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		9050146			
MODEL		PC-525			
Connection		F female			
TV system		AM-TV / DVB-T			
Input frequency range	Band	BI	BIII	UHF	
	MHz	47-80	174-238	470-862	
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. 20dB)		
		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	$f_c - f_c \pm 3.75$ MHz	>7	7 MHz Bandwidth	
		$f_c - f_c \pm 7$ MHz	>80		
		$f_c - f_c \pm 4.25$ MHz	>19	8 MHz Bandwidth	
		$f_c - f_c \pm 8$ MHz	>80		
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	<9			
Spurious 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	°C	-10..+65			
Room temperature with/without fan	°C	-10..+55/ +45			
Protection index		IP 20C			
Units per packing		1			
Packing weight	Kg	1.16			
Packing dimensions	mm	265 x 165 x 40			

Dif. Difference in levels with regard to adjacent channels.

Programmable with programmer PS-003 version 4.4 and later