

LCP-500-550 FREQUENCY AGILE TV PROCESSOR

Features / Benefits

- Available in four standards - NTSC, PAL B/G, PAL I & PAL D.
- Internal squelch circuit provides noise free standby carrier operation.
- Any input channel from Ch. 2 through Ch. W and all UHF channels.
- Any output channel from Ch. 2 through Ch. PPP (547.25MHz)
- Input and output channels are front panel DIP switch selectable.
- >77dB Out-of-Band carrier to noise ratio.
- High level (+60dBmV) output.
- Saw filters for >60dB adjacent channel rejection.
- BTSC stereo compatible.
- Low power consumption.



The **LCP-500-550** Series is a cost effective, frequency agile television processor that will fit most processor applications. This unit is capable of selecting any VHF, HRC and IRC input frequency from 54MHz to 300MHz and any UHF frequency from 470MHz to 890MHz in 0.25MHz increments by front panel DIP switches. Output frequencies from 55.25MHz to 547.25MHz are front panel DIP switch selectable in 1MHz increments. F.C.C. offsets are tunable by a front panel adjustment. Features such as >77dB Out-of-Band carrier to noise ratio, 60dB spurious free dynamic range and low power consumption of only 17 watts; all combine to make the agile **LCP-500-550** not only a processor that offers high performance, but excellent reliability as well.

LCP-500-550



INPUT

Frequency range..... 54.25MHz (Ch. 2) to 300MHz (Ch. W)
UHF frequencies 470MHz to 890MHz.
Selectable in 0.25MHz increments.

Signal level..... -15dBmV to +25dBmV off-air
-10dBmV to +15dBmV off-cable

Adjacent channel rejection..... >60dB

Noise figure..... <8dB @ 54MHz to 300MHz
<12dB @ 470MHz to 890MHz

OUTPUT

Frequency range..... 55.25MHz (Ch.2) to 547.25MHz (Ch. PPP). Selectable by front panel DIP
switches in 1 MHz increments.

Output power levels..... +60dBmV typical, +55dBmV minimum

Frequency stability..... <±5 KHz of selected channel

Video carrier level..... Adjusted downward by 10dB minimum

Video performance..... 1V P-P nominal for 87% modulation. Front panel adjustable
from as low as 0.5V P-P input 75Ω input Z. F connector.

Out-of-Band C/N ratio..... >77dB below output carrier level

Spurious output..... >60dB below video carrier level

Aural carrier level..... 12dB to >20dB below video carrier

BTSC stereo/mono..... Functions are automatic

Front panel controls..... DIP switch channel selection, RF output adjust, A/V ratio
adjust, fine frequency and F.C.C offset adjust.

Power requirements..... 17 Watts maximum

Size..... 1.75”H x 19”W x 6.5”D