

## LCM-6550

### THREE AGILE MODULATORS IN SINGLE CHASSIS

#### Features / Benefits

- Three agile modulators in 19"W x 1.75"H rack space
- Each modulator features 54MHz to 550MHz agile capability
- High level +53dBmV combined output.
- Composite IF loop
- >72dB combined out-of-band C/N ratio
- Saw filtering for excellent adjacent channel rejection
- BTSC compatible
- Available in PAL standards
- Low power consumption



The model **LCM-6550** packages three frequency agile modulators in a single 1.75"H rack mount chassis. Each modulator has an output frequency range of 55.25MHz to 547.25MHz selectable by front panel DIP switches. The combined RF output for these three channels is +53dBmV minimum. A high level (+36dBmV) composite IF loop is provided with each modulator and F.C.C. offsets are tunable by front panel adjust. The combined out-of-band carrier to noise ratio for three channels is >72dB, which allows virtually unlimited numbers of **LCM-6550** to be combined without the need for external bandpass filters.

# LCM-6550



## SPECIFICATIONS

Frequency Range.....	55.25MHz to 547.25MHz. Selectable in 1MHz increments.
Combined output level.....	+53dBmV typical, +50dBmV minimum. Adjustable downward by 10dB minimum per channel.
Composite IF loop.....	Video level    Aural level +36dBmV       +18dBmV to +24dBmV
IF output frequency.....	Video            Aural 45.75MHz       41.25MHz
Out-of-band C/N ratio.....	>72dB as measured in a 4.0MHz noise bandwidth
Audio intercarrier stability.....	<±2KHz
Spurious outputs.....	>60dB below output visual carrier level
Audio deviation.....	25KHz - 75 msec pre-emphasis. 500mV p-p for 25KHz deviation. 10K input Z - Unbalanced.
BTSC stereo/mono.....	Internal defeat of audio pre-emphasis for BTSC baseband inputs.
Audio/video ratio adjust.....	Each channel adjustable from 12dB to 20dB below video carrier.
Video input .....	1V p-p for 87.5% modulation. 75 Ω input Z.
Video performance.....	Differential phase < 5° maximum. Differential gain < 6% maximum.
Front panel controls.....	Channel select by DIP switch (3). Offset adjust - pot (3). Video modulation - pot (3). Audio modulation - pot (3). R.F. level adjust - pot (3). A/V ratio adjust - pot (3).
Front panel indicators.....	Video modulation L.E.D. (3). Audio modulation L.E.D. (3).
Rear panel connectors.....	One (1) "F" type RF output, (3) I.F. inputs and outputs "F" type, (3) video "F" type inputs and (3) screw terminal audio input blocks. 3-wire power cord - U.S.A. plug.
Power consumption.....	115VAC @ 60Hz - 30 watts (10 per ch.)
Size.....	1.75"H x 19"W x 9"D.