



LCM-500-550 Series FREQUENCY AGILE TV MODULATOR

Features / Benefits

- Cost effective agility
- Front panel channel selection to 550MHz
- Saw filtering for ultimate in adjacent channel performance
- High level (+60dBmV) output
- High carrier to noise ratio (>80dB)
- 60dB spurious free dynamic range
- Composite IF loop
- BTSC stereo compatible
- Low power consumption for reliable long term performance
- Available in PAL standards



The **LCM-500-550** agile modulator series is a cost effective, SAW filtered unit that will fit most modulator applications. The **LCM-500-550** provides high level output on any channel from channel 2 (55.25MHz) to channel PPP (547.25MHz). Channels are selectable by front panel DIP switch and all F.C.C. offsets are tunable by front panel adjustment.

Features such as high (>80dB) out-of-band carrier to noise ratio, which allows unlimited numbers of **LCM-500-550** modulators to be combined without the need for external bandpass filters, 60dB spurious free dynamic range and a maximum power requirement of only 14 watts, all combine to make the **LCM-500-550** not only a high performance modulator, but a highly reliable one as well.

Available through

Multicom, Inc.

1076 Florida Central Parkway, Longwood, FL 32750

Ph: 407-331-7779 Toll Free: 800-423-2594 Fax: 407-339-0204

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LCM-500-550 Series

SPECIFICATIONS

Frequency range.....	55.25MHz through 547.25MHz in 1MHz increments
F.C.C offset.....	+12.5KHz & 25KHz tunable by front panel adjust
Output power levels.....	+60dBmV typical
Frequency stability.....	<±5KHz of selected channel frequency
Out-of-band C/N ratio.....	>80dB as measured in a 4.0MHz bandwidth
Spurious outputs.....	>60dB below output visual carrier level
Video carrier level.....	Adjustable downward by 10dB minimum
Video performance.....	1 V p-p nominal for 87.5% modulation Front panel adjustable from as low as 0.5V p-p input
IF loop output.....	Visual carrier + 35dBmV @ 45.75MHz
Aural carrier level.....	Front panel adjustment of A/V ratio from 12dB to 20dB
Aural performance.....	500mV p-p for 25KHz deviation, front panel adjustable. 10K input Z
Intercarrier stability.....	4.5MHz within ±2KHz
BTSC stereo/mono.....	Internal defeat of audio pre-emphasis for BTSC baseband inputs, shipped in mono mode
Front panel controls.....	Channel select DIP switches F.C.C/fine frequency adjust A/V ratio adjust A/V modulation adjust RF output Adjust
Front panel indicators.....	Audio/Video modulation L.E.D.'s
Rear panel connectors.....	Type "F" Video input (75Ω input Z) & RF output connectors Terminal strip Audio input connector
Temperature range.....	0° C to 50° C
Power requirements.....	115VAC @ 60Hz-14 watts maximum
Size.....	1.75"H x 19"W x 6"D

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