



# KINTRONIC LABS

an ISO 9001 registered company

## Solutions for Digital LPTV and TV Translators Installed on AM Towers

The *LPTV Spectrum Rights Coalition* estimates that the FCC auction's clearing of UHF channels 38 – 50 will impact about 4000 LPTV and TV translator licenses and permits.

They will be displaced and have to find new channels and towers for LPTV antennas.

AM towers can be a permanent or temporary solution to allocate a displaced LPTV antenna, in particular where the terrain is not an issue, for instance in flat areas such as in Florida, Oklahoma, Texas, California, and other regions in the U.S.A.



FMC-05LPTV for LPTV on AM base insulated tower

***“A UHF DTV translator at 300 feet height above average terrain (HAAT) operating at the maximum ERP 15 kW would have an FCC (50, 90) 41 dB $\mu$ V/m contour extending just beyond 32 miles.”***

Source: TVTECHNOLOGY Feb 10, 2009 issue; Doug Lung VP of Technology, NBC Stations, Western Region at NBC



ISO-88-LPTV-78EIA



FMC-0.5LPTV



# KINTRONIC LABS

an ISO 9001 registered company

## Technical Characteristics

### Isocoils

| Model                 | Insertion Loss (dB) | Power Rating (W)<br>(470 – 572 MHz) | Outdoor Max Temp | Standard Connectors | Peak AM Voltage (KV) |
|-----------------------|---------------------|-------------------------------------|------------------|---------------------|----------------------|
| ISO-74-LPTV-158EIA-C* | 0.45 – 0.52         | 6,000                               | 130° F           | 1-5/8" EIA Male     | 20**                 |
| ISO-74-LPTV-158EIA    | 0.5 – 0.6           | 3,000                               | 120° F           | 1-5/8" EIA Male     | 20**                 |
| ISO-88-LPTV-78EIA     | 0.8 – 0.9           | 1,750                               | 120° F           | 7/8" EIA Male       | 20**                 |

\* Climate-controlled and fully-enclosed    \*\* Higher voltage rated units are available

### Isocouplers

| Model       | Insertion Loss (dB) | Power Rating (W)<br>(470 – 572 MHz) | Outdoor Max Temp | Standard Connectors | Peak AM Voltage (KV) |
|-------------|---------------------|-------------------------------------|------------------|---------------------|----------------------|
| FMC-0.5LPTV | 0.7 – 0.8           | 500                                 | 130° F           | 7/8" EIA Male       | 18                   |

### Isocoil Features

- Pre-installed in aluminum weatherproof cabinet with off-white paint finish w/ optional support stand
- Cabinet Dimensions for ISO-74-LPTV-158EIA(-C):
  - 60" W x 54" D x 48" H
- Cabinet Dimensions for ISO-88-LPTV-78EIA:
  - 27" L x 24" W x 53-1/2" H
- OPTIONAL for ISO-74-LPTV-158EIA(-C):
  - Air-conditioned with digital thermostat ; automatic 24/7
- Screened Enclosure for Passive Convection Cooling w/ thermostatically-controlled fan