

## **NT 250/LCD**

Phase Locked Loop Programmable FM Exciter/Transmitter 87.5 - 108 MHz Range



- Includes low pass/harmonic filter and can be used as a stand-alone transmitter
- Instant front panel programmability in 10 kHz increments
- All functions via LCD password protected
- Adjustable power output from 5 to 300 W with automatic power control
- Remote control features (optional) include: power on/off, fwd & ref power metering, ability to change frequency and Internal temperature metering
- Telemetry Output and FSK-ID Keyer (optional)
- FCC and IC Certified

## TECHNICAL SPECIFICATIONS

Rated Output Power: RF Output Connector: RF Output Impedance: Frequency Range: Frequency Programmability: Frequency Stability: Modulation Type: Spurious & Harmonic Suppression: Stereo Separation Distortion Asynchronous AM S/N Ratio:

## Synchronous AM S/N Ratio:

AC Power Requirement: Power Consumption: Panel Size: Overall Depth Weight: Ambient Temperature Range: Pre-emphasis: Composite Operation

Composite Inputs: MPX Input: MPX Input Impedance: MPX Input Level: Composite FM unweighed S/N ratio:

Composite Total Harmonic Distortion: Composite Intermodulation Distortion: Baseband: Crosstalk: SCA Inputs: SCA Input Impedance: SCA Input Levels: SCA Amplitude Response: Crosstalk Crosstalk: Monaural Operation Audio Input Impedance:

Audio Input Level: FM S/N Ratio:

Audio Frequency Response: Intermodulation Distortion:

5-300 W continuously variable (ALC)
"N" type female
50 ohm 87.5 MHz to 108 MHz direct from front panel in 10 kHz increments better than 5 ppm (± 500 Hz) direct carrier frequency modulation <- 80 dB or better 30 dB of better
 55 dB @ 1 khz
 60 dB or better below reference carrier with 100% amplitude modulation at 400 Hz without de-emphasis, no FM modulation present
 60 dB or better below reference carrier with 100% amplitude modulation at 400 Hz 410 mm (16"

400 Hz, without de-emphasis, FM modulation =  $\pm 75$  kHz at 400 Hz 117 or 230 V,  $\pm 10\%$ , 50-60 Hz, single phase approx. 600 W from AC 483 mm (19") W x 88 mm (3") H (2 standard rack spaces high) 11 Kg (24 Lbs) 0° to 50° C (32° to 122° F) for FCC 75  $\mu sec$ ; for CCIR 50  $\mu sec$  internally selectable four total, 1 for MPX and 3 for SCA 1 unbalanced BNC connector 3.5 Vp-p (1.237 Vrms/3.64 dBm) >68 dB below ±75 kHz deviation at 400 Hz measured in a 30 Hz to 100 kHz bandwidth with 75 µsec de-emphasis (RMS) 0.05% typical 0.05%, measured with a 1 kHz and a 1.3 kHz tone, 1:1 ratio, at 100% modulation 30 Hz – 60 Khz within 0.15 dB main to stereo subchannel and stereo subchannel to main >55 dB (60 dB typical) 3 unbalanced BNC connectors 0 dBm (775 mVrms/2.2 Vp-p) nominal for ±7.5 kHz deviation, adjustable ±0.8 dB, 40 kHz to 100 kHz 67 kHz SCA to main or to stereo subchannel >65 dB 92 kHz SCA to main or to stereo subchannel >70 dB

600 ohm balanced or unbalanced; 50 dB common mode suppression 0 dBm (775 mVrms/2.2 Vp-p) for  $\pm$ 75 kHz, adjustable >70 dB below  $\pm$ 75 kHz, deviation at 400 Hz measured in a 30 Hz to 20 kHz bandwidth with 75 µsec de-emphasis (RMS) ±0.8 dB, 30 Hz to 15 kHz 0.05% or less, measured with a 1 kHz and a 1.3 kHz tone, 1:1 ratio, at 100% modulation