



500W Transmitter / Translator

325A/327A

425A/427A

Visual Performance

Power Output (Peak)	500 Watts
Output Impedance	50 Ohms
Output Connector	Type "N"
Frequency Range (325A/327A)	54 to 88 MHz
Frequency Range (425A/427A)	174 to 216 MHz
Carrier Stability (Transmitters or Translators with FCR)	±250 Hz
Frequency Translation Stability (Translators)	±1 kHz
Regulation of RF Output Power	3%
Variation of Output (over one frame)	2%
Sideband Response	
-1.25 MHz and below	-20 dB
-0.75 to -0.5 MHz	±0.5 dB, -2 dB
-0.5 MHz to +3.58 MHz	±0.5 dB
+3.58 to +4.18 MHz	±0.5 dB, -1 dB
Frequency Response vs. Brightness	±0.5 dB
Visual Modulation Capability (Transmitters)	1%
Differential Gain	5%
Incidental Phase Modulation	±3°
Linearity (Low Frequency)	5%
Differential Phase	±3°
Signal-to-Noise Ratio	55 dB
2t K-Factor	2%
Envelope Delay	
Transmitters	Per FCC Standard
Translators	±40 ns
Video Input (Transmitters)	75 Ohms
Harmonic Radiation	-60 dB
Intermodulation Products	-52 dB (red field)
Spurious	-60 dB
(>3 MHz from channel edge)	
Noise Figure w/input Preamp (Translators)	4.5 dB (max.)
Input Dynamic Range (Translators)	-65 to -25 dBm

Aural Performance

Power Output (Average)	50 Watts
Distortion	0.5%
FM Noise	-60 dB
AM Noise	-55 dB
Aural to Visual Separation (Transmitters)	4.5 MHz, ±100 Hz
Composite Audio Input (Transmitters)	
Input Level	1V peak, nominal
Input Impedance	75 Ohms, unbalanced
Frequency (±0.5 dB response)	30 Hz to 120 kHz
Monaural Audio Input (Transmitters)	
Input Level	0 to +10 dBm
Input Impedance	600 Ohms, balanced
Frequency Range (±0.5 dB resp.)	30 Hz to 15 kHz
Pre-emphasis	75µs
Subcarrier Input (Transmitters)	
Input Level	1V peak, nominal
Input Impedance	75 Ohms, unbalanced
Frequency Range (±0.5 dB resp.)	20 kHz to 120 kHz

Options

Automatic Station Identifier
Spare Parts Kit
Modulator Option (Translators)
Remote Preamplifier (Translators)
UHF Frequency Correcting Receiver (FCR) Option (Translators)

Specifications subject to change without notice.



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