

FM 100C - Technical Specifications : Technical Specifications

GENERAL

RF Power Output:

10-125W

Output Impedance:

50 Ohms

Frequency Range:

87.5MHz to 108MHz in 10kHz increments

Frequency Stability:

+/-300Hz, +32 degrees F to +122 degrees F (0 degrees C to +50 degrees C)

COMPOSITE

Connector Type:

BNC (3); un-balanced, balanced, front panel test

Input Level:

3.5 V p-p nominal, for ± 75 kHz deviation

Impedance:

Unbalanced: 10 kOhm, nominal, resistive. Balanced: 10 kOhm or 50 Ohm, programmable, jumper selected

Amplitude Response:

± 0.1 dB, 30 Hz to 53 kHz

Phase Response:

± 0.25 degree from linear phase, 30 Hz to 53 kHz

THD + Noise:

0.005% or less

Intermod Dist:

0.005% or less

S/N Radio:

90 dB below ± 75 kHz deviation at 400 Hz, measured in a 20 Hz to 200 kHz bandwidth with 75 μ s de-emphasis, 94 dB with DIN "A" weighting

Asynchronous AM S/N Ratio:

70 dB minimum below equivalent reference carrier with 100% amplitude modulation at 400 Hz and 75 μ s de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio:

55 dB minimum below equivalent 50 W reference carrier with 100% AM modulation at 1 kHz, no de-emphasis (FM modulation ± 75 kHz and 1 kHz)

MONO

Connector Type:

Terminal Block

Input Level:

+10 dBm nominal for ± 75 kHz deviation @ 400 Hz, adaptable to other levels

Impedance:

600 Ohm balanced, resistive, adaptable to other impedances, 60 dB common mode suppression

Amplitude Response:

± 0.5 dB, 30 Hz to 15 kHz; selectable flat, 25, 50, or 75 μ s pre-emphasis

THD + Noise:

0.01%

Intermod Dist:

0.01% or less, 60 Hz to 7 kHz, 4:1 ratio

S/N Radio:

85 dB below ± 75 kHz deviation @ 400 Hz, measured within a 20 Hz to 200 kHz bandwidth with 75 μ s de-emphasis

Broadcast Electronics

Technical Specifications

Asynchronous AM S/N Ratio:

70 dB minimum below equivalent reference carrier with 100% amplitude modulation at 400 Hz and 75 μ s de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio:

55 dB minimum below equivalent 50 W reference carrier with 100% AM modulation at 1 kHz, no de-emphasis (FM modulation \pm 75 kHz and 1 kHz)

SCA

External:**Connector Type:**

BNC (3); un-balanced

Input Level:

3.5 V p-p nominal for 7.5 kHz deviation

Impedance:

100 kohm nominal; resistive

Amplitude Response:

\pm 0.2 dB, 40 kHz to 100 kHz

ALL SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

