

FX 50 : Technical Specifications

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:

± 0.025 dB, 30 Hz to 53 kHz

Phase Response:

± 0.1 degree from linear phase, 30 Hz to 53 kHz

THD + Noise:

0.003% or less

Intermod Dist:

0.005% or less (0.003% typical)

S/N Ratio:

90 dB (94 dB typical) below ± 75 kHz deviation at 400 Hz, measured in a 20 Hz to 200 kHz bandwidth with 75 μ s de-emphasis, 94 dB (96 dB typical) with DIN "A" weighting

Asynchronous AM S/N Ratio:

80 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:

60 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:

BNC

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:

0.005% or less (0.003% typical) at ± 75 kHz deviation and 50 W RF output, 400 Hz using 75 μ s de-emphasis

Intermod Dist:

0.005% or less (0.003% typical) 60 Hz to 7 kHz, 4:1 ratio

S/N Ratio:

90 dB below ± 75 kHz deviation @ 400 Hz (93 dB typical) measured within a 20 Hz to 200 kHz bandwidth with 75 μ s de-emphasis, 94 dB (96 dB typical) with DIN "A" weighting

Asynchronous AM S/N Ratio:

80 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:

60 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)

SCA

External:

Tomorrow's Radio Today

Broadcast Electronics

Technical Specifications

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:

±0.2 dB, 40 kHz to 100 kHz



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