

GENERAL

Transmitter Type

Narrowband FM

RF Output Power

50-300 W continuously adjustable, VSWR 3:1 maximum with auto foldback at higher reflected power

RF Output Connection

Type N female

RF Output Impedance

50 ohms unbalanced

RF Frequency Range

162.400 MHz to 162.550 MHz in 25 kHz steps

Spurious and Harmonic

Less than -68 dBc (TIA/EIA-603)

Output Bandpass Filtering

Bandpass cavity, I.L < 0.5 dB, > 10 dB attenuation at Fo +/- 1 MHz

Remote Diagnostics

Available through a modem, voice grade line or LAN with RS232 DTE, RJ11 DCE, USB, and Ethernet

Local Visual Indicators

All operating parameters and status of all remotely sensed parameters/conditions

AC INPUT

AC Input Range

1 Phase 93 to 132 Vac, 47 to 63 Hz
1 Phase 187 to 264 Vac 47 to 63 Hz

Power Consumption

Less than 750 VA at 300 W output

AUDIO SPECIFICATIONS

Main Audio Input

600 Ohm balanced

Main Audio Input Level Deviation

-20 dBm to +5 dBm for +/- 5 kHz deviation

Audio Response

200 Hz to 5 kHz, 6 dB/octave pre-emphasis

Sub Audible Input

600 Ohm balanced

Sub Audible Input Level Deviation

0 dBm, 0 Hz to 200 Hz for +/- 1 kHz deviation, adjustable gain +/- 6 dB

Frequency Stability

Better than +/- 0.0005% from -30° C to +50° C

Audio Distortion

Less than 1%

FM Hum and Noise

Better than -40 dB

AM Noise

Better than -34 dB (TIA/EIA - 603)

ENVIRONMENTAL

Temperature Range

-30° C to +50° C

Humidity Range

10% to 95% non-condensing and in salt laden air

Altitude

0 m to 4572 m (0 ft to 15,000 ft)

Cooling

Forced filtered air input with duct flange output

Filters replaceable without interruption of transmitter

PHYSICAL

Dimensions

Dual system:

122.9 cm H x 58.4 cm W x 81 cm D
(48.4" H x 23" W x 31.9" D)

With cavity filter and dummy load:

122.9 cm H x 77.1 cm W x 81 cm D
(48.4" H x 30.4" W x 31.9" D)

Transmitter only:

W = 48.3 cm (19") - Standard 19" rack
H = 13.3 cm (5.25") - 3RU
D = 60.2 cm (23.7") - Including output connector

Weight

Dual system + cavity filter and dummy load:
141 kg (310 lbs)

375 W transmitter:

15.4kg (34 lbs)