

Plug N Play 150 : PNP150

Now, an FM transmitter from Marti Electronics that gives you all the reliability, performance, ease-of-use, installation and support that you've come to expect from a product with the Marti name on the front. This transmitter is designed for applications where value is the key. The Plug N Play products have performance figures that exceed expectations, so our PNP 150 is the perfect solution to have as your main transmitter and cost effective enough to have as a standby.



RF SPECS

Output Power:

Range:
15 W to 165 W

Accuracy:
10%

Resolution:
1 W

Efficiency:
NA

VSWR:

Rated power into 1.5:1 VSWR maximum at all phase angles, open and short circuit protected

Impedance:

50 Ohms nominal

Frequency:

Range:
87.5 MHz to 108 MHz

Stability:
 ± 300 Hz, -10° C to $+40^{\circ}$ C

RF Harmonics Suppression:

70 dB or better

Modulation:

Type:
Digital FM

Capabilities:
>150 kHz; 350 kHz max

Regulatory:

FCC, IC 131061129, Meets IEC215 safety requirements

FM AUDIO SPECIFICATIONS

Stereo, L/R Analog:

Connector Type:
D-Type, 15-Pin, Female

Input Level:

Jumper selectable (-10, 0, +4, +8 dBm) for 100% modulation @ 400 Hz

Impedance:

Balanced 600 Ohms or 10k Ohms, resistive; jumper selectable

Amplitude Response:

±0.5 dB; 30 Hz to 15 kHz; Flat, 50 µsec or 75 µsec pre-emphasis.

THD + Noise:

0.05%; 30 Hz to 15 kHz.

Intermod Dist:

TBD

S/N Radio:

73 db below 100% modulation at 1 kHz measured in a 22 Hz to 22 kHz bandwidth with CCIR weighted filter

Separation:

50 dB or greater; 30 Hz to 15 kHz; L-to-R or R-to-L

Asynchronous AM S/N Ratio:

55 dB below rated power reference carrier with 100% AM modulation at 400 Hz, 75 µsec de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio:

50 dB below rated power reference carrier with 100% AM modulation at 400 Hz, 75 µsec de-emphasis with FM modulation ±75 kHz at 400 kHz

Pre-emphasis:

None, 50 µS, 75 µS (switchable)

Composite:**Connector Type:**

BNC, 50 Ohm or 10k Ohm, resistive, jumper selectable

Input Level:

1.25 V peak-to-peak for 100% modulation @ 400 Hz.

Impedance:

50 Ohms or 10k Ohms; jumper selectable

Amplitude Response:

±0.5 dB; 30 Hz to 15 kHz

THD + Noise:

0.06% at 1 kHz

S/N Radio:

73 db below 100% modulation at 1 kHz measured in a 22 Hz to 22 kHz bandwidth with CCIR weighted filter

Asynchronous AM S/N Ratio:

55 dB below rated power reference carrier with 100% AM modulation at 400 Hz, 75 µsec de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio:

50 dB below rated power reference carrier with 100% AM modulation at 400 Hz, 75 µsec de-emphasis with FM modulation ±75 kHz at 400 kHz

Stereo, AES Digital input:**Connector Type:**

D-Type, 25-Pin, Female or Toshiba TORX173 optical connector
S/PDIF- RCA Phono, Female

Impedance:

Balanced 600 Ohms or 10 kOhms; jumper selectable

Amplitude Response:

±0.5 dB; 30 Hz to 15 kHz; Flat

THD + Noise:

0.05%; 30 Hz to 15 kHz

S/N Radio:

76 db below 100% modulation at 1kHz measured in a 22 Hz to 22 kHz bandwidth with CCIR weighted filter

Separation:

50 dB; 30 Hz to 15 kHz; L-to-R or R-to-L

Linear Crosstalk:

40 dB minimum below 100% modulation. Main to Sub/Sub to Main due to distortion products

57, 76, 95 kHz Suppression:

80 dB below 100% modulation

Asynchronous AM S/N Ratio:

55 dB below rated power reference carrier with 100% AM modulation at 400 Hz, 75 µsec de-emphasis (no FM modulation present)

Synchronous AM S/N Ratio:

50 dB below rated power reference carrier with 100% AM modulation at 400 Hz, 75 µsec de-emphasis with FM modulation ±75 kHz at 400 kHz

Pre-emphasis:

None, 50 µS, 75 µS (switchable)

SCA (Internally Generated):**Connector Type:**

D-Type, 25-Pin, Female

Input Level:

+8 dBm

Impedance:

Balanced 600 Ohms or 10 kOhms; jumper selectable

S/N Ratio:

60 dB or better

Frequency:

67 kHz internally generated

Deviation:

5 kHz or 7.5 kHz; jumper selectable

MECHANICAL/PHYSICAL

Size (Unpacked):

7"H x 19"W x 19"D

Weight (Unpacked):

25 lbs

Airflow:**Inlet:**

Top of unit

Outlet:

Rear of unit

RF Output Connector:

Type N female

ENVIRONMENTAL

Temperature:

-10° C to +40° C

Altitude:

7500 ft (2286m) @ 50 Hz; 10,000 ft (2048m) @ 60 Hz

Humidity:

95% maximum, non condensing

ELECTRICAL

AC Input Voltage:

90 to 264 VAC, Single phase, 47-63 Hz

Disconnect Size:

4 A at 120 VAC, 2 A at 220 VAC

AC Wire Size:

#12 at 110 VAC, #12 at 220 VAC, Copper AWG, TYPE THHN

Current Draw:

4 A at 120 VAC, 2 A at 220 VAC

Power Consumption:

500W at 150 W output into 50 Ohm load

Heat Dissipation:

350W at 150 W output into 50 Ohm load

BTU:

1540 at 150 W output into 50 ohm load

Air Conditioning Sizing:

Per room requirements

Power Factor:

0.99

Surge Protection:
MOV by customer