

PPA-20X

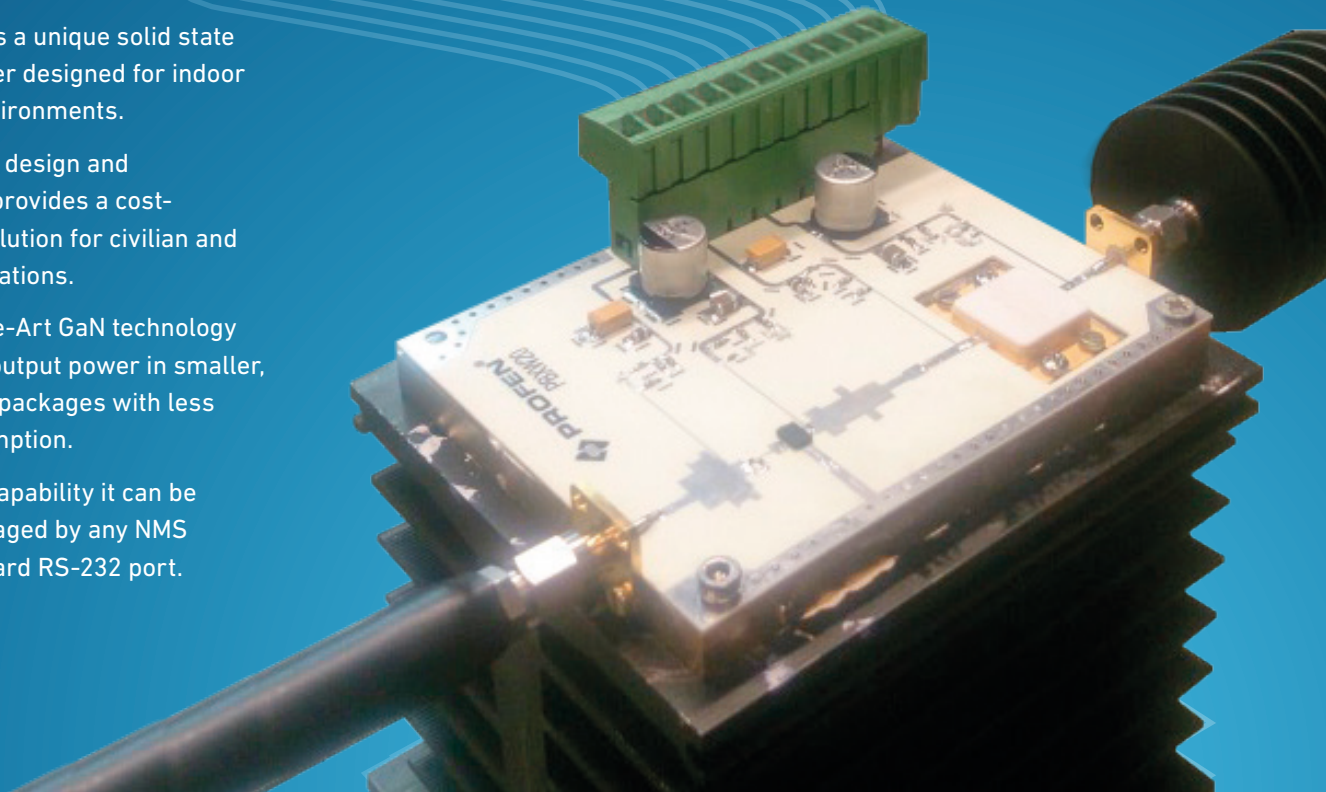
X-Band 20W SSPA

The PPA-20X is a unique solid state power amplifier designed for indoor or outdoor environments.

Its exceptional design and performance provides a cost-competitive solution for civilian and military applications.

Its state-of-the-Art GaN technology offers higher output power in smaller, lighter weight packages with less energy consumption.

With its M&C capability it can be remotely managed by any NMS through on board RS-232 port.



SPECIFICATIONS

- * STATE-OF-THE-ART GAN TECHNOLOGY WITH OUTSTANDING EFFICIENCY
- * 20W TYPICAL SATURATION POWER OVER ISOLATED SMA-F OUTPUT PORT (WAVEGUIDE OUTPUT IS OPTIONAL)
- * MONITOR AND CONTROL OVER RS-232 SERIAL PORT.
- * LOW WEIGHT AND DIMENSION

PPA-20X

X-Band 20W SSPA

SPECIFICATIONS

Frequency

7.9- 8.4 GHz

Output Power

Min. +40 dBm @PdB

Max. +44 dBm

Gain

Typical 30 dB \pm 1 dB

Output Gain 1 dB Compression Point

+40 dBm

Input VSWR

Max. 1.7:1

Output VSWR

Max. 1.2:1 (with isolator)

Max. 1.5:1 (without isolator)

3rd order intermodulation

(3 dB backwards from 1dB compression point)

Max. -25dBc (frequency difference 100kHz)

AM-PM distortion (3 dB backwards from P1dB)

Max. 1°/dB

Group Delay (any 40MHz interval)

Peak-to-peak

1.2ns max.

Linear

0.035ns max.

Parabolic

0.007ns max.

Phase Noise

-32 dBc at 10 Hz offset

-62 dBc at 100 Hz offset

-72 dBc at 1 kHz offset

-82 dBc at 10 kHz offset

-92 dBc at 100 kHz offset

-102 dBc at 1 MHz offset

-112 dBc at >10 MHz offset

AM/PM Conversion (at Linear Output Power)

2 deg/dB

Noise Power Density- Transmit

-76 dBm/Hz

Output Spurious

-60 dBc

SYSTEM & ENVIRONMENTAL PARAMETERS

Dimensions

9.4 cm x 7.2 cm x 1.8 cm

Weight

600 gr (without cooler)

Input and Output Connector

SMA-F 50 Ohm

(WR-112 Waveguide output optional)

Relative Humidity

98% Non-Condensing

DC Power Supply

+48 VDC

Monitor & Control

RS-232 serial communication



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