

30 Watt Power Amplifier

RMIPA-1



Amplifies Paging Signals

- 935-940 MHz Paging Transmit Amplifier
- 30 Watt Single Channel Output
- GMSK Modulation Format
- LDMOS FET Technology
- Built-in Power Amplifier Bypass
- 120 VAC Operation
- Unsurpassed AML Technical Support

RMPA-1

30Watt Paging Transmit Amplifier

Functional Description

The RMPA-1, 30 watt paging transmit amplifier is a 19" rack mounted product designed to amplify 935-940 MHz (GMSK) paging signals. LDMOS FET technology provides ruggedness, reliability, higher gain per stage and improved efficiency over comparable bipolar devices.

The unit includes an over temperature shutdown circuit. The bypass mode will activate in the event of over temperature, loss of AC power or amplifier device failure. The unit is powered from 110 VAC (DC optional) and is designed for single channel GMSK format. The unit has a power takeoff point providing up to 500ma at +12 VDC for external use.

General Specifications

Frequency
935-940MHz

Output Power
30 Watts single channel

Gain
10dB at 30 Watts output

Format
GMSK

Gain vs. Frequency
+/-0.25 dB

VSWR Input/Output
1.5:1 max.

Second Harmonic
<60 dBc

Noise Power Output
-90 dBm

Output Power
30 watts minimum

Voltage
120 VAC 47-63 Hz

Ambient Operating Temperature
0° to +60°C

Storage Temperature
-40° to +85°C

Auxiliary Output
+12VDC, 500mA

Mechanical
19" W EIA rack, 12"D, 3.5"h (2RU)

Weight
12 lbs.

Connectors
RF: Type N (f) mounted at rear of chassis.
AC: IEC 320 on rear panel w/ 2m line cord.

Features

- 935-940 MHz paging transmit amplifier
- 30 Watt single channel output
- GSMK modulation format
- LDMOS FET technology
- 120 VAC operation
- Self protect shutdown and bypass on severe (>60° C ambient) overtemperature operation
- Field replaceable fan module

Options

- Other paging frequencies available
- 220V to 240V 50/60 Hz
- 60 watts RF power output
- +19 to +36 and -48 VDC input voltages
- TNC or SMA input connectors
- OEM configurations available

All of the above specifications are subject to change without notice.
FCC ID LX7PA1180 pending.

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