125W 928-944MHZ RF POWER AMPLIFIER
MODEL # A125310960B
USER MANUAL

1. GENERAL DESCRIPTION

The 125W 928-944MHz Power Amplifier incorporates LDMOS technology to provide high efficiency and rugged operation. The PA features a compact housing, alarm display LEDs and cooling fan.

2. INSTALLATION

Note: DO NOT operate the PA unless all RF connections are secured and properly terminated.

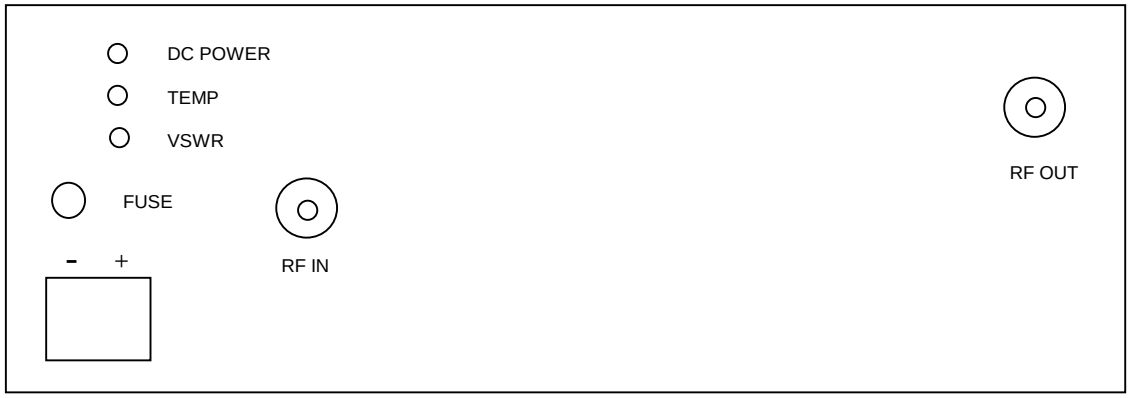

Figure 1. Front Display and Connections

The PA's power out is set in the factory for 125W at a selected customer frequency. There is no adjustment required. The following procedure is for reference purpose only.

- Connect the PA's RF IN port to a RF source.
- Properly terminate the PA's RF OUT port with a 125W 50Ohm load.
- Connect a DC power supply source to the terminal block labeled + -.
- Turn on the DC power supply and set for 26V @ 18A. The PA's DC POWER LED and cooling fan should be on.
- Set RF source's frequency within the range of 928 to 944 MHz. Turn on the RF signal. Adjust the RF input level for 125W at the output port. The input RF level should remain below or equal to 20dBm.

3. SPECIFICATIONS

Model #	A125310936B

FCC ID	OEUPA936M125W

Electrical

Frequency Range	928-944 MHz
Output Power	125 Watts
ALC Settling Time	100ms max to within ± 1dB of final value
Input Power	20 dBm max
Input Return Loss	-10 dB
Harmonics & Spurious	At least -70dBc
Stability	Less than 3:1 VSWR
DC Supply Voltage	26 V ± 0.5 V
Input DC Power	468 Watts
RF Load VSWR	Full power at better than 2:1 VSWR

Environmental

Operating Temp:	-30 to 45°C
Humidity:	0-95% relative humidity, no condensing
Operating Altitude	0-12,000 feet

Mechanical

Cooling	Single external fan, forced air along the sides