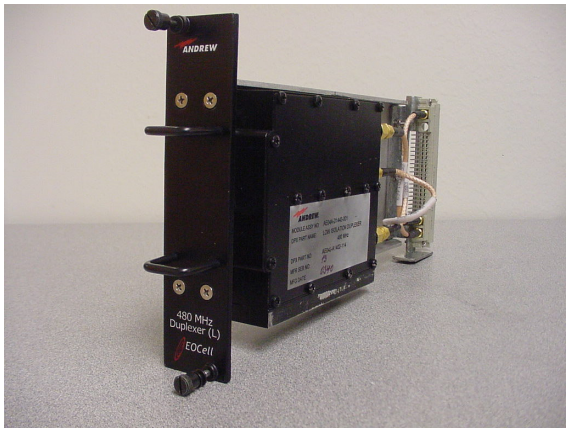
5.3.3 Photograph



5.4 800 MHz EO Cell Amplifier Module (AE04A-D1265-001)

5.4.1 Description

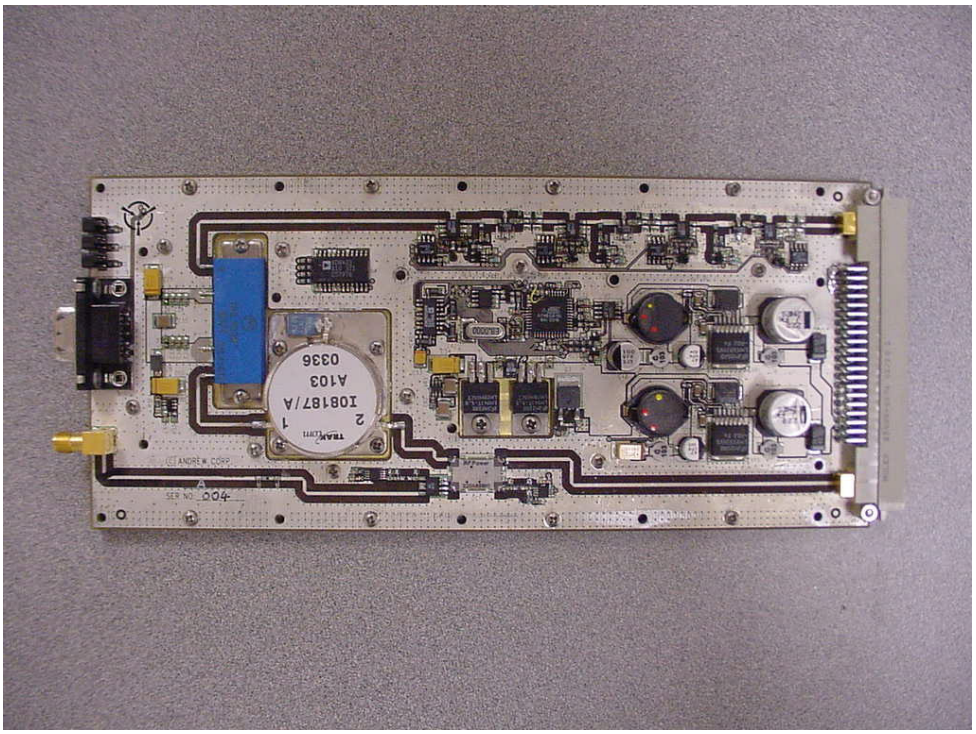
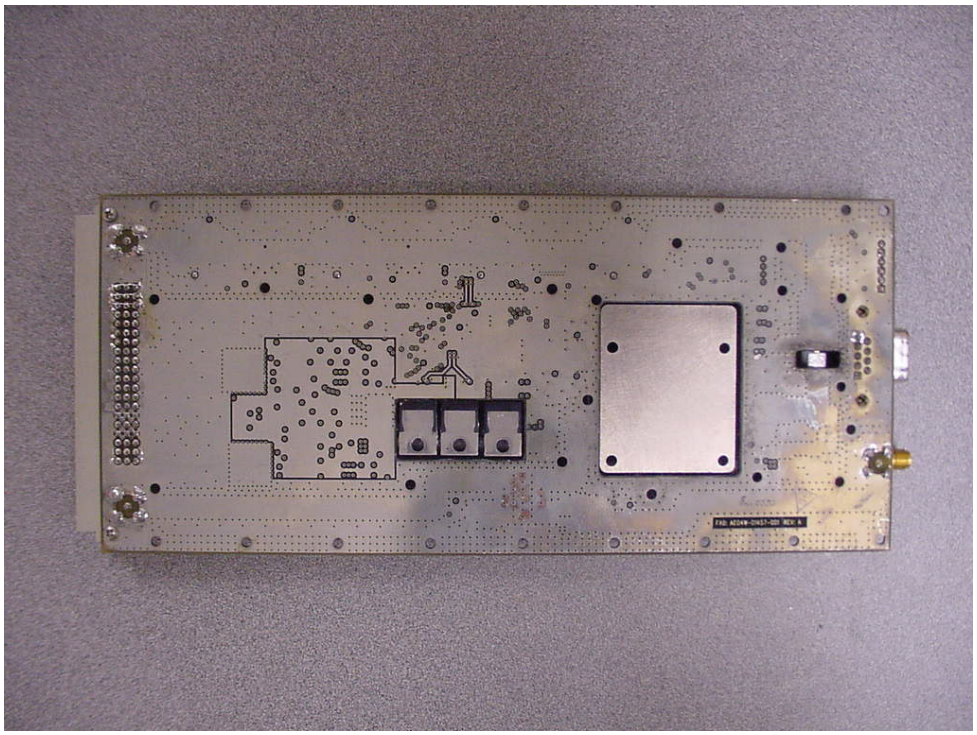
This 2Watt, 806-856 MHz, class A Power Amplifier Module provides a nominally 51 dB of gain. It has 30 dB of gain adjustment range, which can be varied electronically thru the front panel RS232 connector. Additionally, the module has an internal Automatic Level Control (ALC) circuit, which can be set to limit the maximum power level produced by the BDA. This module has an on board RISC processor that provides optional alarming/status monitoring and communications capabilities. The same module design is used for both the Downlink and Uplink amplifier.

The amplifier module contains high reliable RF parts to provide a long trouble-free operating life. In the unlikely event of failure, the entire amplifier module should be replaced.

5.4.2 Specification

PARAMETER	SPECIFICATION
Operating Frequency Range	806 – 856 MHz
Gain Typical	51 dB
Output Gain Adjustment[1]	30 dB
Composite Output Power	≥ +33 dBm
Impedance	50 Ohms
VSWR	2:1
OIP3[2]	≥ + 47 dBm
Noise Power max. @ 51 dB Gain	-111 dBm/Hz
DC Power	+48 VDC
Operating Temperature	-20°C to +60°C

Note:

1.Via Front Panel RS232 Connector.
2.Two-Tone Intermodulation: Measure at two-output carriers of +23.5 dBm/C at 845 MHz and 845.6 MHz with 51 dB gain setting.

5.4.3 Photographs