

FERMILAB PREP LINEAR AMPLIFIER NIM MODULE

1.0 SCOPE

1.1 The following specifications describe a multi-channel D.C. coupled linear amplifier for use in high energy physics experiments. Salient features include:

Number of channels	at least 8 per module
Input	50 ohm input impedance
Output	2 per channel, to drive 50 ohm loads
Gain	Fixed x 10
Bandwidth	D.C. to 100 MHz
Linearity	+ 1% integral
Linear Range	+500mV to -2 volts at output
D.C. Offset	Adjustable to zero
Packaging	Single width NIM module

1.2 In accordance with good engineering practice, the Fermi National Accelerator Laboratory anticipates the use of recent developments and techniques in high speed electronics including integrated circuits where applicable in order to reduce circuit complexity, cost and power dissipation, and to improve reliability and ease of servicing. Although use of commercially available components is preferred, units containing proprietary components (e.g., Hybrids) are acceptable when they substantially improve the operating characteristics or simplify the circuit design.

1.3 Exceptions to any specifications in this document should be specifically listed in the seller's response.