

DESCRIPTION

Output Module. The ALTEC LANSING **1783** line output module provides the drive capability necessary to interface with other professional equipment. The electronically balanced output stage provides a low source impedance to drive subsequent stages. If transformer

isolation is necessary, the module's circuit board accommodates the optional PC-mount **1786** output isolation transformer. The continuously variable output level control is local to the module permitting independent adjustment of each line output.

SPECIFICATIONS

1783 LINE OUTPUT MODULE

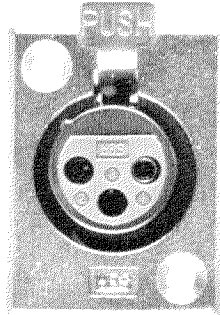
Output Type: Electronically balanced
Output Source Impedance: <50Ω
Nominal Output Level/Load Impedance: +8 dBm/600Ω
 (Ref. 1 kHz, 0 dBm = 0.775 Vrms across 600 Ω load, output level control at maximum, 100 mVrms input)
Maximum Output Level: +24 dBm
Frequency Response (Ref. 1 kHz, +8 dBm output)
 Without **1786**
 ±1 dB 20 Hz - 25 kHz
 ±3 dB 10 Hz - 50 kHz
 Without **1786**
 ±1 dB 30 Hz - 20 kHz
 ±3 dB 15 Hz - 40 kHz
Total Harmonic Distortion (THD): (Ref. 1 kHz, +8 dBm output, output level control at maximum, 30 kHz low pass filter)
 Without **1786**
 20 Hz - 20 kHz <0.05%
 Without **1786**
 20 Hz - 20 kHz <0.1%
Signal-to-Noise Ratio: >88 dBm
 (Below +8 dBm output, output level control at maximum, A-weighted)

Control: 1 - Output level control
Weight (Net): 2.2 oz (63 gr)
Power Requirements: ±18 VDC at 20 MA.
 (Supplied by mainframe)
Included Accessories: 2 - mounting screws
 (for potentiometer bracket)
Optional Accessories: **1786** Output Isolation Transformer

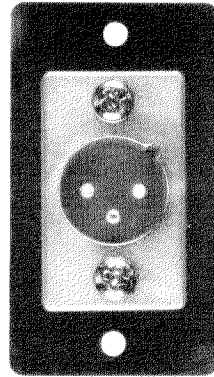
1786 OUTPUT ISOLATION TRANSFORMER

Impedance Ratio: 600Ω:600Ω
 (Primary: Secondary)
Frequency Response: (Ref. 1 kHz, +18 dBm output)
 ±1 dB 20 Hz - 20 Hz
 ±3 dB 10 Hz - 40 Hz
Total Harmonic Distortion (THD): (Ref. 1 kHz, +18 dBm output)
 20 Hz - 20 Hz <0.5%
 50 Hz - 20 Hz <0.1%
Insertion Loss: <1 dB
 (Ref. 1 kHz, +18 dBm output)
 ALTEC LANSING continually strives to improve their products and performance. Therefore specifications are subject to change without notice.

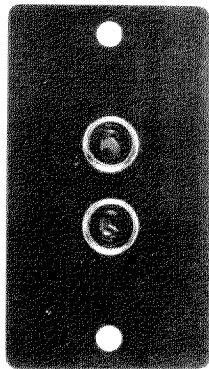
CONNECTORS FOR USE WITH 1783



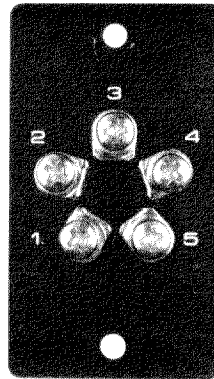
4E



4F



4G



4H

ARCHITECT'S AND ENGINEER'S SPECIFICATIONS

The line output module shall have a low source impedance, continuous variable gain, and the capability for adding a 1786 output isolation transformer. In addition, the module shall be fully compatible with the 1700-series mixer/preamplifier and mixer/power amplifier mainframes, and accept any one of the 1790-series input connectors.

The line output module shall meet the following per-

formance criteria. Gain: 26 dB, continuously variable. Frequency response: 50 Hz to 20 kHz, ± 1 dB. Output source impedance: $< 50\Omega$. Noise floor: < -80 dBm. Total Harmonic Distortion (THD): $< .05\%$, ($< .1\%$ with 1786), Ref. 1 kHz, +8 dBm output, 30 kHz low pass filter.

The line output module shall be the ALTEC LANSING Model **1783**.

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