MODEL T6002L/H

2-CHANNEL LINE DRIVER

The IED Model T6002L/H is a member of the Titan® Series Digital Distribution System. It is a 2-channel line driver module which can be installed in a T9160 Integrated Power Amplifier Mainframe slot.

The IED Model T6002L/H 2-channel line driver has two low impedance, balanced, floating, active outputs which are designed to drive very long lines. Its output transformerless design provides wider bandwidth while minimizing distortion at all frequencies. The result is improved overall system performance while maintaining cost efficiency.

In some applications, the T9160 Integrated Power Amplifier Mainframe is required to drive mixed speaker loads, such as groups of speakers operating from a 70 V line and others being self-powered and requiring line-level input signals. The T6002L/H can provide line level outputs, while the Titan Series power amplifier cards drive the conventional distributed speakers. Both can be operated simultaneously in the T9160 Integrated Power Amplifier Mainframe.

The Model T6002L is designed for use in systems operating from a 120VAC line, while the T6002H is for 240VAC operation.

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Figure 1 - IED T6002L/H 2-Channel Line Driver Card

SPECIFICATIONS

ELECTRICAL, ANALOG, EACH CHANNEL

All Measurements at 120VAC unless noted otherwise

1. Maximum Input Level . . . . . +24 dBu
   1 kHz sine wave
2. Maximum Output Level . . . . . +24 dBu
   1 kHz sine wave
3. Total Harmonic Distortion, THD+N . . . . . .0006 %
   2 kHz input, Max. Output, 10 Hz - 22 kHz filters
4. Input Sensitivity . . . . . +24 dBu
5. Frequency Response . . . . . +0, – 0.2 dBu
   20 Hz - 20 kHz
6. Noise Floor . . . . . – 95 dBu
   10 Hz - 22 kHz filters
7. Signal-to-Noise Ratio, S/N . . . . . >100 dB
   Unweighted, 20 Hz - 20 kHz
8. Total Harmonic Distortion, THD . . . . . < 0.2% @ 2 kHz
   P_O = 200 W
10. Input Impedance, Z_{IN} . . . . . 10 kΩ
12. Output Impedance, Z_{OUT} . . . . . <0.5 Ω
13. Crosstalk . . . . . <–65 dB
    f = 2 kHz, Max. output

CONTROLS

1. Power Switch . . . . . Two position slide switch

INDICATORS

1. Signal Present / Clipping . . . . . Yellow/Red LED
   2, one per channel
2. Power 'On' . . . . . Green LED

CONNECTORS

1. 32-pin Euro Connector . . . . . Panduit 100-032-033

MECHANICAL

1. Size (maximum overall dimensions)
   Height . . . . . (17.3 cm) 6.8"
   Width . . . . . (4.6 cm) 1.8"
   Depth . . . . . (31.75 cm) 12.5"
2. Weight . . . . . (1.8 kg) 4.0 lbs.

ENVIRONMENT

1. Operating Temperature Range . . . . . (0 °C - +50 °C) +32 °F - +122 °F
   Applicable for typical voice paging and background music applications.
2. Storage Temperature Range . . . . . (–40 °C - +70 °C) –40 °F - +158 °F

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