



Description

The IED Model T6002 is a member of the Titan® Series Digital Distribution System. It is a 2-channel line driver module that can be installed in a T9160 Integrated Power Amplifier Mainframe or a T6400 2-card Power Amplifier Mainframe.

The IED Model T6002 2-channel line driver has two low impedance, balanced, floating, active outputs which are designed to drive very long lines. Its transformerless output 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 T6002 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.

Specifications

Electrical (analog, each channel)

All Measurements at 120VAC unless noted otherwise.

Maximum Input Level.....	+24 dBu
<i>(1 kHz sine wave)</i>	
Maximum Output Level.....	+24 dBu
<i>(1 kHz sine wave)</i>	
Total Harmonic Distortion (THD+N).....	.0006%
<i>(2 kHz input, Max. Output, 10 Hz – 22 kHz filters)</i>	
Input Sensitivity.....	+24 dBu
Frequency Response.....	+0 dBu, -0.2 dBu
<i>(20 Hz – 20 kHz)</i>	
Noise Floor.....	-95 dBu
<i>(10 Hz – 22 kHz filters)</i>	
Signal-to-Noise Ratio (S/N)	> 100 dB
<i>(Unweighted, 20 Hz – 20 kHz)</i>	
Input Impedance (Z_{IN}).....	10 k Ω
Output Impedance (Z_{OUT}).....	<0.5 Ω
Crosstalk	<-65 dB
Input Power.....	5W

Controls

Power SwitchTwo position slide switch

Indicators

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

Connectors

32-pin Euro Connector Panduit 100-032-033

Mechanical

Size (maximum overall dimensions)
Height.....6.8" (17.3 cm)
Width.....1.8" (4.6 cm)
Depth 12.5" (31.75 cm)
Weight4.0 lbs (1.8 kg)

Environmental

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