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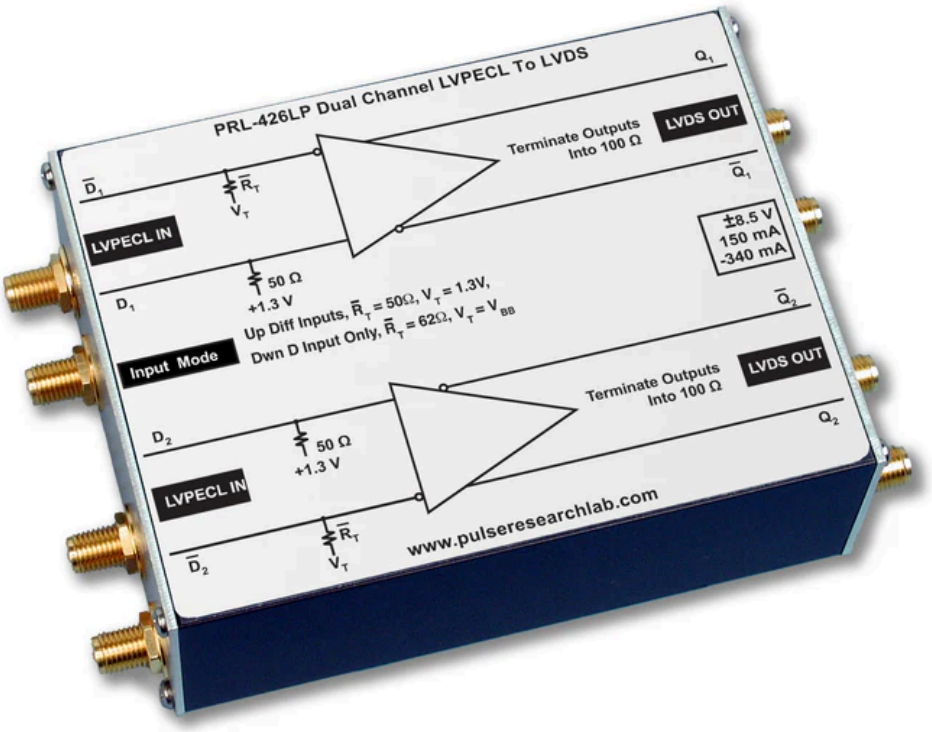
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2 Ch. LVPECL to LVDS Translator



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Product Description	Diagrams	Specifications	Documents

Applications:

- Converting Single Ended or Differential LVPECL Signals to LVDS Signals
- High Speed Digital Communications systems Testing
- High Speed SONET Clock Level Translation

Features:

- f_{max} > 500 MHz for LVPECL input
- 1.1 ns Typical Output Rise & Fall Times
- Single Ended or Differential 50 Ω/V_{TT} Inputs
- Complementary 50 Ω LVDS Outputs
- SMA I/O Connectors
- SMA or Triax Output connectors
- Two channels for CLK/DATA translation
- Self-contained 1.3 x 2.9 x 3.9-in. units include ±8.5 V/1.4 A AC/DC Adapters

Description

The PRL-426 is a series of NECL-, PECL-, LVPECL- or TTL-to-LVDS Logic Level Translators:

- PRL-426N converts NECL to LVDS
- PRL-426P converts PECL to LVDS
- PRL-426LP converts LVPECL to LVDS
- PRL-426T converts TTL to LVDS

The PRL-426LP can receive either single-ended or differential input signals, selected by a switch.

The differential outputs are 50 Ω back-terminated and are designed for driving floating 100 Ω loads, normally the configuration used in LVDS input circuits. The output swing is typically 600 mV with a common mode voltage of 1.2 V. The PRL-426LPTR, has Triax output connectors instead of the SMA connectors. These high speed translators facilitate testing of high speed digital communications circuits where conversion of LVPECL clock and data signals to LVDS level signals is often required.

The PRL-426LP is designed to interface with +3.3 V or +3.0 V LVPECL circuits. In the differential input mode, both inputs D and $\overline{D}$ of the PRL-426LP are terminated into 50 Ω/+1.3 V. In this mode, either one or both inputs can accept AC coupled signals as well. In the single input mode, signals should be connected to the D inputs only. The $\overline{D}$ inputs are switched internally to V_{BB}, nominally +2.0 V for LVPECL, and termination resistors $R_{\overline{T}}$ for the $\overline{D}$ input channels are changed to 62 Ω.

Each unit is supplied with a ±8.5 V/1.8 A AC/DC Adaptor and housed in a 1.3 x 2.9 x 3.9-in. extruded aluminum enclosure. Available accessories include voltage distribution modules for mounting multiple units.

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