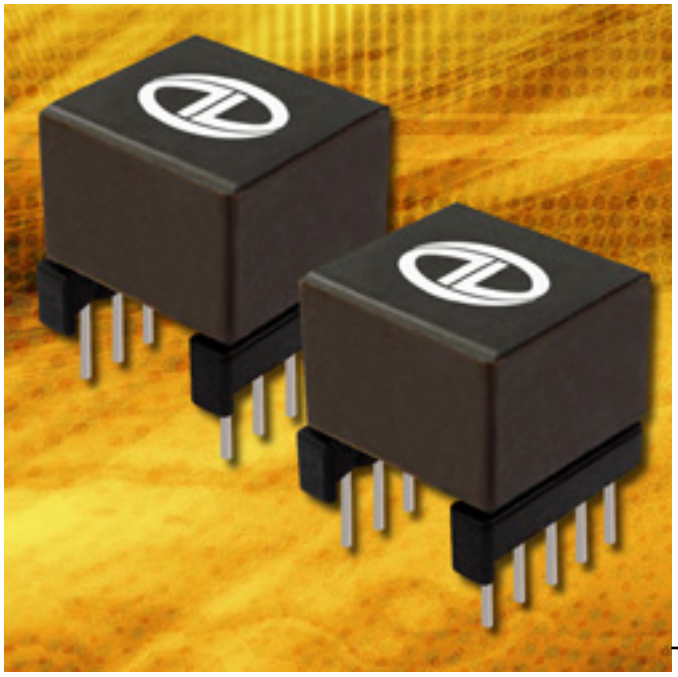
Datatronic Modem Transformer Receives Approval As Reference Design



Teridian Semiconductor Corporation has approved the new Model PT79546 V.22bis Modem Transformer from Datatronic Distribution, Inc., for use with its reference designs that include the Teridian IC Models 73M901CE and 73M1903.

The new PT79546 is a drop-in device developed to support Teridian IC reference designs including 73M2901CE and 73M1903. The Teridian 73M2901CE is a single chip low speed modem that supports basic modem functionality. The integrated data pump (supporting modulations up to ITU-TV.22 bis), controller and analog front end (AFE) are designed specifically for cost sensitive embedded applications, including satellite set-top boxes, point-of-sale terminals and automatic teller machines.

The Teridian 73M1903 is a single-chip analog front end (AFE) device used in embedded soft modem and voice applications including high speed data modems, satellite set-top-boxes, POS terminals, MFP and Fax terminals and IP phones. It offers multiple features designed to reduce the external component count and delivers robust performance with a low cost transformer DAA.

The Datatronic PT79546 Modem Transformer is a highly reliable V.22bis modem transformer for use with Teridian IC circuit designs. It provides space- efficient isolation between sensitive electronics and voice or data lines. Featuring a high dielectric strength tested to 1500 Vrms, it helps safeguard equipment users and their data by protecting them from electrical shock.

The Datatronic PT79546 Modem Transformer’s advanced design and construction

offers excellent performance. Key specifications include: a primary impedance of 600 ohms, turns ratio of 1:1 ±2 percent, 4H shunt inductance and 4.5 mH leakage inductance.

The PT79546 V.22bis Modem Transformer comes in a 14.5 mm (0.571 inch) square package with a 13.5 mm (0.531 inch) seated height above the circuit board. Lead terminal finish is RoHS compliant; solder meets J-STD-020D.

Its superior performance in a relatively small package makes it ideal for high density circuit designs.

The Datatronic PT79546 Transformer withstands high temperature soldering and operating temperature environments from –40°C to +105°C; storage temperature range is -40°C to +125°C. The PT79546 comes in tape-and-reel packaging for auto insertion equipment.

In 10,000 piece quantity, the Datatronic PT79281 Transformer is available beginning at $1.25 each. Lead-time is stock to six weeks. Volume OEM pricing is available upon request.

For more information, contact Datatronic Distribution Inc., 28151 Highway 74, Romoland, CA 92585, or telephone 951-928-7700 or fax 951-928-7701. Visit them at www.datatronics.com [1] or email them at ddisales@datatronics.com [2]

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