

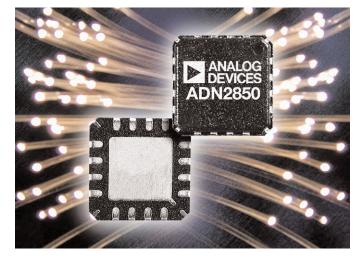
ADN2850 Dual 10-Bit Programmable Resistor

REPLACES DISCRETE RESISTORS FOR IMPROVED PERFORMANCE AND REDUCED MANUFACTURING COSTS

In order to address ever-increasing infrastructure requirements of fiber optic communications, Analog Devices has focused on providing high-performance yet costeffective interface IC solutions for optical networking systems.

A prime example of Analog's system knowledge and design expertise working together is the ADN2850. This digitally controlled nonvolatile resistor enables automated setup of laser bias and modulation current levels, eliminating the need for discrete resistors. The ADN2850 provides the industry's best temperature stability, a factor-of-ten improvement over other commercially available solutions. Its 10-bit accuracy is a four-times improvement in dynamic range over the competition, easing design and helping speed time to market.

The ADN2850 will enable our customers to offer performance enhancements, cost reductions, and improved system reliability. Let the ADN2850 change the way you design for fiber optics. The ADN2850 provides low sensitivity to temperature variations for improved laser diode stability.



FEATURES:

- Very Low (<35 ppm/°C) Resistance Temperature Coefficient
- 10-bit Accuracy
- 25 k Ω , 250 k Ω Terminal Resistance
- Programmable Laser Calibration
- 3 V to 5 V Single, ±2.5 V Dual Supply Operation
- Nonvolatile Memory for Set-Point Storage and Additional Factory Data
- 5mm × 5mm LFCSP-16 Lead Frame Chip Scale and Thin TSSOP-16 Packages

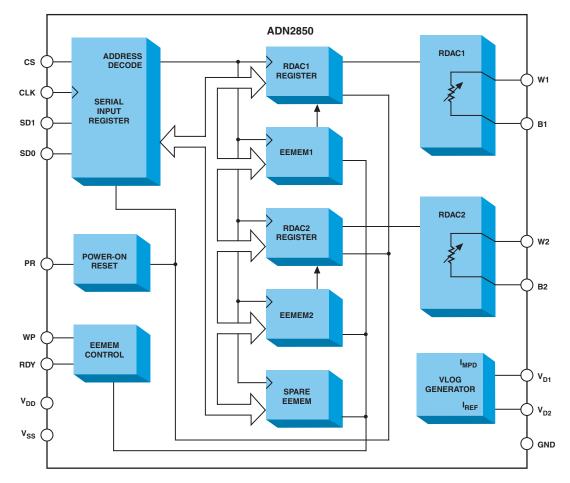
APPLICATIONS:

- SONET, SDH, ATM Gigabit Ethernet Laser Diode Driver
- TEC Controller Calibration
- APD Calibration
- Optical Power Monitoring



MORE THAN 30 YEARS' EXPERIENCE IN HIGH-PERFORMANCE ANALOG CIRCUIT DESIGN

Analog Devices has more than 30 years of experience design, manufacturing and marketing a broad line of high-performance liner, mixed-signal, and digital integrated circuits that address a wide range of real-world signal processing applications sourcing issues that require characterizing each supplier's laser diode product.



FUNCTIONAL BLOCK DIAGRAM

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