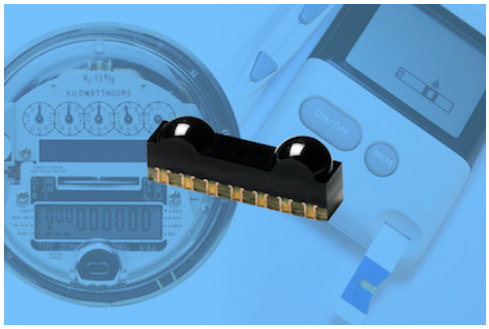
New TFBR4650 IrDA®-Compliant IR Transceiver Module in Standard 6.8 mm by 2.8 mm by 1.6 mm Footprint Provides Drop-in Replacement for Parts From Other Manufacturers, Eliminating the Need for PCB Redesigns

Product Benefits:



- IrDA-compliant
- Standard 6.8 mm by 2.8 mm by 1.6 mm footprint
- Consists of a PIN photodiode, infrared emitter, and control IC in a single package
- Compliant with the latest IrDA physical layer standard for IR data communication
  - Supports data rates from 9.6 kbit/s to 115.2 kbit/s (SIR)
- Link distance up to 30 cm with standard IrDA and up to 20 cm with low power IrDA
  - Emission intensity can be set by an external resistor to increase the range for extended low power specifications to 50 cm
- Quiescent supply current of 75 µA at 3.6 V
- Shutdown current of 10 nA typical at +25 °C
- Lead (Pb)-free and RoHS-compliant

Market Applications:

- Wireless transmission in gas and power meters, cell phones, microphones, robots, and mobile medical devices

The News:

Vishay Intertechnology announces that the company has released a new device for IrDA-compliant infrared (IR) transceiver modules in the standard 6.8 mm by 2.8 mm by 1.6 mm footprint. Vishay Semiconductors TFBR4650 offers a reliable drop-in replacement for devices from other manufacturers. While other IrDA transceiver manufacturers may exit the IrDA transceiver market, Vishay is fully committed to maintaining a presence and supporting customers.

- Helps customers avoid the need for PCB redesigns in the event of competitor product obsolescence
- Provides low power consumption

The Key Specifications:

- Data rates: 9.6 kbit/s to 115.2 kbit/s
- Link distance: 0 to 30 cm
- Quiescent supply current: 75 µA at 3.6 V
- Shutdown current: 10 nA typical at +25 °C
- Operating voltage: 2.4 to 3.6 V
- Temperature range: -25 °C to +85 °C

Availability:
Samples and production quantities of the new IR transceiver module are available now, with lead times of eight weeks.

For the latest in all things opto — articles, videos, and products — visit Vishay's Opto Squad blog site: www.vishayopto.com.

To access the product datasheet on the Vishay Website, go to http://www.vishay.com/ppg?84597 (TFBR4650)

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