



Author: Jim Toal
Tel: 1 408 567-8358
E-mail: jim.toal@vishay.com

TFBS6711 and TFBS6712: Lowest-Profile and Smallest-Footprint FIR (4 Mbit/s) IrDA[®] Transceivers

The News:

Vishay Intertechnology, Inc. (NYSE: VSH) adds to its industry-leading portfolio of fast infrared (FIR), 4-Mbit/s IrDA transceivers with two new products offering the lowest height profile and smallest footprint available on the market. The new TFBS6711 and TFBS6712 measure just 1.9 mm high, with a footprint area of only 6.0 mm x 3.0 mm. These transceivers are designed primarily for the mobile phone, camera phone and PDA/smart phone markets.

Features:

- Long IrDA transmit distance – 50 cm typical
- Best Remote Control distance – ≥ 6.5 m on-axis
- Lowest profile – 1.9 mm
- Smallest footprint – 6.0 mm x 3.05 mm
- Fast data rates – up to 4 Mbit/s
- Low shutdown current – 0.01 μ A
- Reduced pin count – 6 pins
- Pin compatibility – TFBS4711 and TFBS5711
- Surface-mount package
- Lead (Pb)-free – components are in accordance with RoHS 2002/95/EC and WEEE 2002/96/EC
- Compatible with lead-free processing
- EMI protection built-in, no shield required
- IrDA compliant
- TFBS6711 – I/O voltage is defined by the external power supply voltage
- TFBS6712 – I/O voltage equals 1.8 V and can be directly connected to a microcontroller operating at 1.8 V





The Key Applications:

- High-speed data transfer using infrared wireless communication
- Mobile phones
- Camera phones
- Smart phones
- PDA
- MP3 players
- Digital cameras
- IrDA adapters or dongles

The Perspective

Sharing digital pictures using IrDA transceivers has gained in popularity. As resolution increases, the files being transferred become larger. Using Vishay's TFBS6711 or TFBS6712 FIR transceiver reduces picture transfer time. For example, a 329-kbyte file can be transferred in 1.6 seconds. These transceivers are also capable of transmitting Remote Control signals over 6.5 meters.

The Key Benefits:

- Meets handheld packaging requirements
- Dual function as IrDA transceiver and Remote Control for TV, DVD players and recorders, multimedia PCs, and home appliances
- Allows for direct connection to 1.8-V microcontroller
- Lead-free device and capable of lead-free processing

Availability

- Engineering samples – Now
- Production quantities – Now
- Lead time – 4 to 6 weeks
- Reel quantity – 1000 or 2500 units

Contact Information

Americas

David Ojeda
Vishay
2201 Laurelwood Road
Santa Clara, CA 95054
1 408-567-8347
david.ojeda@vishay.com

Europe

Andreas Mugele
Vishay
Theresienstrasse 2
74072 Heilbronn, Germany
+49-7131-67.2788
andreas.mugele@vishay.com

Asia/Pacific

Tim Chen
Vishay
233 Pao Chiao Road
Hsin Tien, Taipei
Taiwan, R.O.C.
886-2-2918-7575 x8121
tim.chen@vishay.com