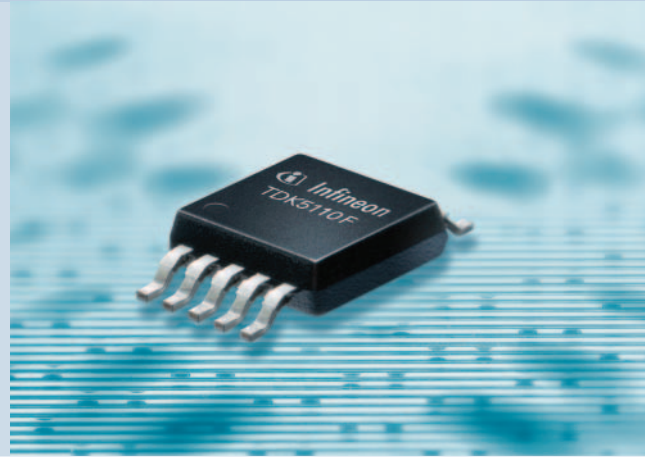


TDK511xF Series

High Power 315/434/868 MHz,
ASK/FSK Transmitters (-40 ... +125°C)



WIRELESS CONTROL – The TDK511xF series is a family of high power ASK/FSK transmitters for the frequency bands 311 – 317 MHz, 433 – 435 MHz and 868 – 870 MHz. The IC offers a high level of integration and needs only a few external components. The device contains a fully integrated PLL synthesizer and a high efficiency power amplifier to drive a loop antenna. A special circuit design and a unique power amplifier design are used to save current consumption and therefore to save battery life. Additional features like power down mode and divided clock output are implemented. The IC can be used for both ASK and FSK modulation.

Applications

- Remote Keyless Entry (RKE) systems
- Tire Pressure Monitoring (TPM) systems
- Remote control systems
- Alarm systems
- Communication systems

Ordering Information

| Type | Ordering Code | Package |
|----------|---------------|-------------|
| TDK5110F | SP000056180 | PG-TSSOP-10 |
| TDK5111F | SP000056181 | PG-TSSOP-10 |
| TDK5116F | SP000056182 | PG-TSSOP-10 |

Evaluation Kits

| Type | Modulation | Frequency | Ordering Code |
|------------------|------------|-----------|---------------|
| TDK5110F-TDA5210 | FSK | 434 MHz | SP000086722 |
| TDK5111F-TDA5211 | FSK | 315 MHz | SP000086723 |
| TDK5116F-TDA5210 | FSK | 868 KHz | SP000087099 |

Features

- Frequency range
311 – 317 MHz/433 – 435 MHz/868 – 870 MHz
- ASK and FSK modulation
- High efficiency power amplifier typically
10 dBm @ 3 V
- Fully integrated frequency synthesizer
- VCO without external components
- Fully integrated frequency synthesizer
- Power down mode
- Divided clock output for μ C
- Low external component count
- Integrated FSK-switch
- Low supply current typ. 14 mA @ 3 V
- Voltage supply range 2.1 – 4 V
- Temperature range -40 ... +125°C

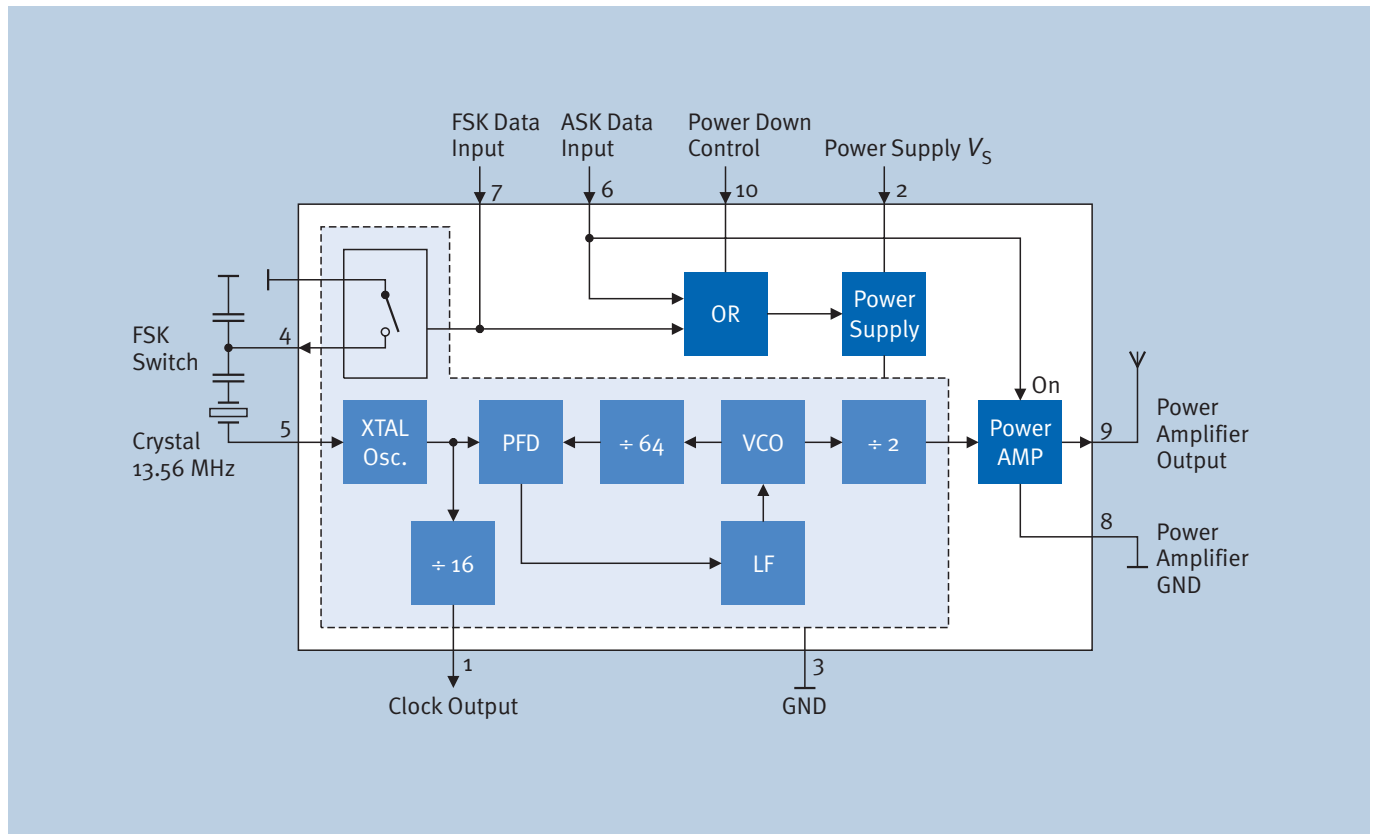
www.infineon.com/wireless

Wireless Control



Never stop thinking

Block Diagram TDK5110F



| Type | TDK5110F | TDK5111F | TDK5116F |
|---|------------------|------------------|------------------|
| Frequency Range | 433 – 435 MHz | 311 – 317 MHz | 868 – 870 MHz |
| Data Rate | 20 kHz (ASK/FSK) | 20 kHz (ASK/FSK) | 20 kHz (ASK/FSK) |
| Supply Voltage | 2.1 – 4 V | 2.1 – 4 V | 2.1 – 4 V |
| Supply Current typ. (PLL Enable Mode/Transmit Mode $V_s = 3 V$) | 4/14.2 mA | 4/14 mA | 4/14 mA |
| Power Down Current | 4 μA | 4 μA | 4 μA |
| RF Transmit Power typ. | 10.0 dBm | 10.0 dBm | 10.0 dBm |
| Package | PG-TSSOP-10 | PG-TSSOP-10 | PG-TSSOP-10 |
| Temperature Range | -40°C ... +125°C | -40°C ... +125°C | -40°C ... +125°C |

How to reach us:
<http://www.infineon.com>

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Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

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Ordering No. B138-H8689-G1-X-7600
 Printed in Germany
 PS 0506.5 nb

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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