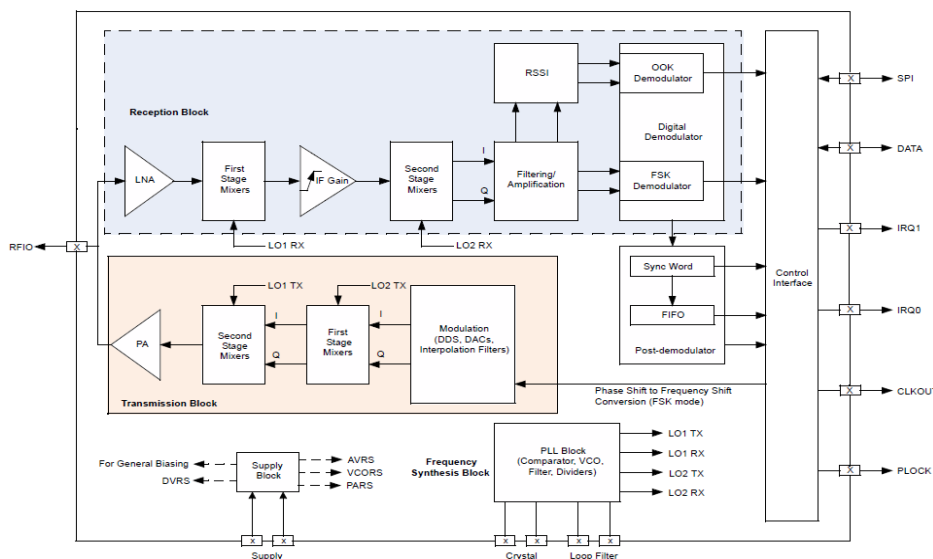
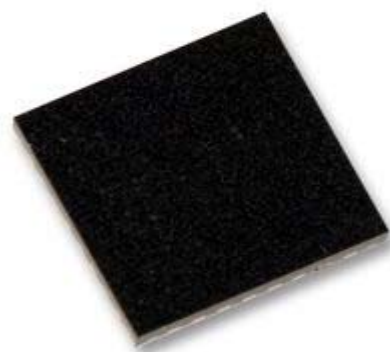




MRF89XA ISM Band Transceivers

General Description:

The MRF89XA is a single chip, multi-channel FSK/OOK transceiver capable of operating in the 863- 870 MHz and 902-928 MHz license-free ISM frequency bands, as well as the 950-960 MHz frequency band. The low-cost MRF89XA is optimized for very lowpower consumption (3 mA in Receiver mode). It incorporates a baseband modem with data rates up to 200 kb/s. Data handling features include a 64-byte FIFO, packet handling, automatic CRC generation and data scrambling. Its highly integrated architecture allows for minimum external component count while still maintaining design flexibility.



Key Features:

- Fully integrated ultra low-power, sub-GHz transceiver
- Wide band - Half-duplex transceiver
- Supports proprietary sub-GHz wireless protocols
- Simple, 4-wire SPI-compatible interface
- CMOS/TTL-compatible I/Os
- On-chip oscillator circuit
- Dedicated clock output
- Supports power-saving modes

- Operating voltage: 2.1V-3.6V
- Low-Current Consumption, Typically: - 3 mA in RX mode - 25 mA @ +10 dBm in TX mode - 0.1µA (Typical) and 2 µA (Maximum) in Sleep mode
- Supports Industrial Temperature
- Small, 32-pin TQFN package - Complies with ETSI EN 300 220 and FCC part 15

Applications:

- Home/industrial/building automation
- Remote wireless control
- Wireless PC peripherals
- Remote keyless entry
- Wireless sensor networks
- Vehicle sensor monitoring
- Telemetry
- Data logging systems
- Wireless alarm
- Remote automatic meter reading
- Security systems for home/industrial environments
- Automobile immobilizers
- Sports and performance monitoring
- Wireless toy controls
- Medical applications

Related Products Information:

Mfr Part #	Farnell #	Newark #	Description
MRF89XA-I/MQ	1823157	76R6668	Ultra-Low Power, Integrated ISM Band Sub-GHz Transceiver 32-pin TQFN