

## 315/433/868/915MHz FSK/ASK Transmitter Families

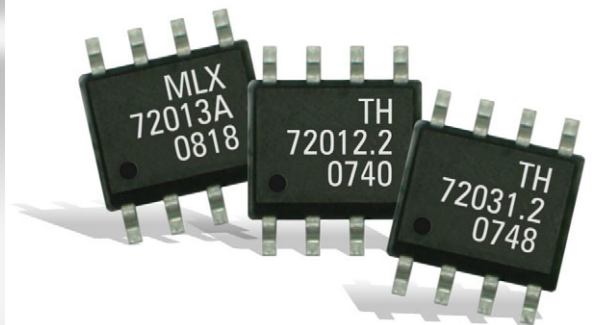


### General Features

- ◆ Frequency range from 290MHz to 930MHz
- ◆ Fully integrated PLL-stabilized VCO
- ◆ Single-ended RF output
- ◆ FSK through crystal pulling allows modulation from DC to 40 kbit/s
- ◆ High FSK deviation possible for wideband data transmission
- ◆ ASK achieved by on/off keying of internal power amplifier up to 40 kbit/s
- ◆ Wide power supply range from 1.95 V to 5.5 V
- ◆ Wide operating temperature range from -40° C to 125° C
- ◆ Very low standby current
- ◆ On-chip low voltage detector
- ◆ Adjustable RF power: -12dBm to 10dBm or 12dBm (MLX72013)
- ◆ Adjustable current consumption: 3.2 to 13.4mA or 15.9mA (MLX72013)
- ◆ Independent FSK and ASK modulation inputs
- ◆ Very low standby current: 50nA typical
- ◆ For many standards like EN 300 220, FCC part 15, Japan ARIB, Korea, China

### Transmitter Types in SOIC8 Package

- ◆ TH72001 315MHZ FSK
- ◆ TH72002 315MHZ ASK
- ◆ TH72011 433MHZ FSK
- ◆ TH72012 433MHZ ASK
- ◆ **MLX72013 433MHZ FSK high power**
- ◆ TH72031 868/915MHZ FSK
- ◆ TH72032 868/915MHZ ASK
- ◆ TH72032 868/915MHZ ASK



### Transmitter Types in 10L QFN 3x3 Dual Package

- ◆ TH72005 315MHZ FSK/ASK
- ◆ TH72015 433MHZ FSK/ASK
- ◆ TH72035 868/915MHZ FSK/ASK

#### With Microcontroller Clock Output

- ◆ TH72006 315MHZ FSK/ASK
- ◆ TH72016 433MHZ FSK/ASK
- ◆ TH72036 868/915MHZ FSK/ASK

