

MICRF011

Status: In Production

Features:

- Complete UHF receiver on a monolithic chip
- Frequency range 300 to 440 MHz
- Typical range over 200 meters with monopole antenna
- Data rates to 2.5kbps (SWP), 10kbps (FIXED)
- Automatic tuning, no manual adjustment
- No filters or inductors required

Device Overview

Summary

The MICRF011 is a single chip OOK (ON-OFF Keyed) Receiver IC for remote wireless applications, employing QwikRadio technology. This device is a true “antenna-in, data-out” monolithic device. All RF and IF tuning is accomplished automatically within the IC, which eliminates manual tuning and reduces production costs. Receiver functions are completely integrated. The result is a highly reliable yet extremely low cost solution for high volume wireless applications. Because the MICRF011 is a true single-chip radio receiver, it is extremely easy to apply, minimizing design and production costs, and improving time to market.






Additional Features

- Complete UHF receiver on a monolithic chip
- Frequency range 300 to 440 MHz
- Typical range over 200 meters with monopole antenna
- Data rates to 2.5kbps (SWP), 10kbps (FIXED)
- Automatic tuning, no manual adjustment
- No filters or inductors required
- Low operating supply current - 2.4 mA at 315MHz
- Fully pin-compatible with MICRF001
- Very low RF re-radiation at the antenna
- Direct CMOS logic interface to standard decoder and microprocessor ICs
- Extremely low external part count
- Applications
 - Garage Door / Gate openers
 - Security Systems
 - Remote Fan / Light Control

Parametrics

| Name | Value |
|-------------------------|-----------------|
| • Type | OOK Receiver IC |
| • Pin Count | 14 |
| • Packages | DIP, SOIC |
| • RF Receiver | Yes |
| • Operating Temperature | -40C to +85C |
| • RF Data Rate (Kbps) | 2.5 |
| • Frequency Range | 300MHz-440MHz |

RoHS Information

| Part Number | Device Weight | Shipping Weight | Lead Count | Package Type | Package Width | Solder Composition | JEDEC Indicator | RoHS | China EFUP |
|---------------|---------------|-----------------|------------|--------------|----------------|--------------------|-----------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| MICRF011YN | 0.953300 | 1.833333 | 14 | PDIP | .300in | Matte Tin | e3 |  |  |
| MICRF011YM | 0.143200 | 0.280702 | 14 | SOIC | .150in(3.90mm) | Matte Tin | e3 |  |  |
| MICRF011YM-TR | 0.143200 | 0.325000 | 14 | SOIC | .150in(3.90mm) | Matte Tin | e3 |  |  |

To see a complete listing of RoHS data for this device, please [Click here](#)

Shipping Weight = Device Weight + Packing Material weight. Please [contact sales](#) office if device weight is not available.