

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.