

# X3 Frequency Multiplier

RMK-3-31+

50Ω Output 27 to 36 MHz

## The Big Deal

- Low conversion loss, 14 dB
- Wide input power range, +12 to +17 dBm
- Excellent harmonic suppression: F2 & F4, 60 dBc



CASE STYLE: TT1224

## Product Overview

Mini-Circuits' RMK-3-31+ frequency multiplier provides a multiplication factor of 3 converting input frequencies from 9 to 12 MHz into output frequencies from 27 to 36 MHz, supporting applications including synthesizers, local oscillators, transceiver chains, satellite up and down converters and more. It provides an input power range from +12 to +17 dBm, low conversion loss, and good harmonic suppression. The multiplier comes housed in a miniature surface mount package (0.25 x 0.31 x 0.16") ideal for dense circuit board layouts.

## Key Features

Feature	Advantages
Low conversion loss, 14 dB typ.	With a low conversion loss, RMK-3-31+ produces higher output power, reducing the need for amplification.
Excellent harmonic suppression <ul style="list-style-type: none"><li>• F2, 60 dBc</li><li>• F4, 60 dBc</li></ul>	Reduces spurious signals and the need for additional filtering.
Wide input power range, +12 to +17 dBm	Wide input power signal range accommodates different input signal levels while still maintaining a low conversion loss.
Low cost	Provides an easy, cost-effective solution for generating high-frequency signals from a lower frequency signal source.
Small size	Measuring only 0.25 x 0.31 x 0.16", the RMK-3-31+ saves space in crowded PCB layouts.

### Notes

- A. Performance and quality attributes and conditions not expressly stated in this specification document are intended to be excluded and do not form a part of this specification document.  
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