New Product Announcement!

Ultra Low Noise MMIC Amplifier PMA-5455+

50Ω 0.05 to 6 GHz

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The Big Deal

- Ultra Low Noise Figure, 0.8 dB
- High IP3/Low Current, 40mA
- Wideband, up to 6 GHz



3mm x 3mm MCLP (EIA: QFN) Pkg

Pricing: **$1.49** (QTY 20)

Product Overview

Mini-Circuits PMA-5455+ is a E-PHEMT based Ultra-Low Noise MMIC Amplifier operating from 50 MHz to 6 GHz with a unique combination of low noise and high IP3 making this amplifier ideal for sensitive receiver applications. This design operates on a single 5V supply at only 40 mA and is internally matched to 50 Ohms.

Key Features

Feature	Advantages
Ultra Low Noise, 0.8 dB	Outstanding Noise Figure, measured in a 50 Ohm environment without any external matching
High IP3, 31 dBm	Combining Low Noise and High IP3 makes this MMIC amplifier ideal for Low Noise Receiver Front End (RFE) because it gives the user advantages at both ends of the dynamic range: sensitivity & two-tone spur-free dynamic range
Low Current, 40 mA	At only 40mA, the PMA-5455+ is ideal for remote applications with limited available power or densely packed applications where thermal management is critical.
Broad Band	Operating over a broadband the PMA-5455+ covers the primary wireless communications bands: Cellular, PCS, LTE, WiMAX
Internally Matched	No external matching elements required to achieve the advertised noise and output power over the full band
MCLP Package	Low Inductance, repeatable transitions, excellent thermal pad
Max Input Power, +20 dBm	Ruggedized design operates up to input powers of +20 dBm without the need of an external limiter
High Reliability	Low, small signal operating current of 40mA nominal maintains junction temperatures typically below 110°C at 85°C ground lead temperature

Notes: 1. Performance and quality attributes and conditions not expressly stated in this specification sheet are intended to be excluded and do not form a part of this specification sheet. **2.** Electrical specifications and performance data contained herein are based on Mini-Circuit's applicable established test performance criteria and measurement instructions. **3.** The parts covered by this specification sheet are subject to Mini-Circuits standard limited warranty and terms and conditions (collectively, "Standard Terms"); Purchasers of this part are entitled to the rights and benefits contained therein. For a full statement of the Standard Terms and the exclusive rights and remedies thereunder, please visit Mini-Circuits' website at www.minicircuits.com/MCLStore/terms.jsp.