

## New Product Announcement!

# Ultra Low Noise MMIC Amplifier

PSA-545+

50Ω      0.05 to 4 GHz

### The Big Deal

- Ultra Low Noise
- High IP3
- Wideband, up to 4 GHz



CASE STYLE: CA1389

**Pricing: \$1.45 (QTY 50)**

### Product Overview

Mini-Circuits PSA-545+ is a E-PHEMT based Ultra-Low Noise MMIC Amplifier operating from 50 MHz to 4 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 3V supply at only 80mA 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, 36 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
High Output Power, +20 dBm	The PMA-545+ provides up to +20dBm output power at 1dB compression enabling this amplifier to support high linear dynamic range requirements.-
Broad Band	Operating over a broadband the PSA-545+ 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
SOT-363 Package	Small size, industry standard package
Max Input Power, +15dBm	Ruggedized design operates up to input powers of +15dBm without the need of an external limiter
High Reliability	Low, small signal operating current of 80mA nominal maintains junction temperatures typically below 125°C at 85°C ground lead temperature



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