



ICASP3540-20A

PRODUCT SUMMARY



3.45 – 4.0 GHz 20 W

HIGH-EFFICIENCY POWER AMPLIFIER

ICASP3540-20A is a high-efficiency DPD-friendly power amplifier designed for 5G NR FR1 band n77. This power amplifier is fully matched at input and output. It is realized in GaN technology and overmolded in a compact 26-pad 6 × 10 mm² LGA package.

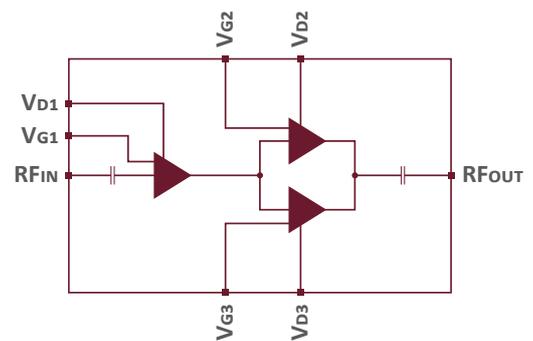
This amplifier is part of iCana's high-efficiency 20 W PA RF product family designed for Wireless Infrastructure.



26-Pad 6 × 10 mm² LGA Package

Key Features

- Frequency range: 3450 – 4000 MHz
- High efficiency: PAE = 40% at 33 dBm POUT (avg)
- High linearity: ACLR < -50 dBc at 33 dBm POUT (avg) with digital pre-distortion (5G signal, BW = 200 MHz)
- Wide instantaneous bandwidth: 200 MHz
- High power gain: 30 dB
- 50 Ω matched input and output
- Drain voltage: VDD = 28 V
- Compact 6.0 × 10.0 × 1.1 mm³ thermally enhanced LGA package



Functional Block Diagram

Typical Applications

- Small cells for wireless communications infrastructure
- Repeaters / DAS
- General purpose wireless

Ordering Guide

Part Name	Description
ICASP3540-20A	3.45 – 4.0 GHz 20 W High-Efficiency Power Amplifier
ICASP3540-20A-EVB	Evaluation Board for ICASP3540-20A

20 W PA Product Family

Product Name	Frequency Range (GHz)	5G Bands
ICASP3338-20A	3.3 – 3.8	n48, n78
ICASP3540-20A	3.45 – 4.0	n77

REV 1.1

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