


RF Amp Single Power Amp 6GHz 55V 10-Pin LDCC Tray

Manufacturer:	Analog Devices, Inc
Package/Case:	LDCC-10
Product Type:	Amplifier ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

The HMC8205BF10 is a gallium nitride (GaN) broadband power amplifier delivering 45.5 dBm (35 W) with 38% power added efficiency (PAE) across an instantaneous bandwidth of 0.3 GHz to 6 GHz. No external matching is required to achieve full band operation. Additionally, no external inductor is required to bias the amplifier. Also, dc blocking capacitors for the RFIN and RFOUT pins are integrated into the HMC8205BF10.

The HMC8205BF10 is ideal for pulsed or continuous wave(CW) applications, such as military jammers, wireless infrastructure, radar, and general-purpose amplification.

The HMC8205BF10 amplifier is a 10-lead ceramic leaded chip carrier (LDCC).

The HMC8205BCHIPS is a gallium nitride (GaN), broadband power amplifier that delivers 45.5 dBm (35 W) with 40% power added efficiency (PAE) across an instantaneous bandwidth of 0.4 GHz to 6 GHz. No external matching is required to achieve full band operation. No external inductor is required to bias the amplifier. In addition, dc blocking capacitors for the RFIN and RFOUT pins are integrated into the HMC8205BCHIPS.

The HMC8205BCHIPS is ideal for pulsed or continuous wave(CW) applications, such as military jammers, wireless infrastructure, radar, and general-purpose amplification.

Key Features

High PSAT: 46 dBm

High power gain: 20 dB

High PAE: 38%

Instantaneous bandwidth: 0.3 GHz to 6 GHz

Supply voltage: VDD = 50 V at 1300 mA

10-lead LDCC package

HMC8205BCHIPS Features

High output power: 45.5 dBm typical at PIN = 24 dBm

High power gain: 22 dB typical at PIN = 24 dBm

High PAE: 40% typical at PIN = 28 dBm

Die size: 4.8 mm × 3.4 mm × 0.1 mm

Application

Military jammers

Commercial and military radar

Power amplifier stage for wireless infrastructure

Test and measurement equipment

Recommended For You

HMC624ALP4E

Analog Devices, Inc

QFN24

HMC952ALP5GE

Analog Devices, Inc

QFN

HMC361S8GE

Analog Devices, Inc

SOP-8

HMC253AQS24E

Analog Devices, Inc

QFN

HMC346MS8G

Analog Devices, Inc

MSOP8

HMC1119LP4ME

Analog Devices, Inc

QFN

HMC659LC5

Analog Devices, Inc

QFN

HMC909LP4E

Analog Devices, Inc

QFN

HMC564LC4

Analog Devices, Inc

QFN

HMC1021LP4E

Analog Devices, Inc

QFN

HMC241AQS16E

Analog Devices, Inc

SSOP16

HMC424LP3E

Analog Devices, Inc

QFN

HMC662LP3E

Analog Devices, Inc

QFN

HMC8038LP4CE

Analog Devices, Inc

QFN16

HMC363S8G

Analog Devices, Inc

SOP8