

Aerospace and Defense

Welcome to the Summer 2020 edition of the Aerospace and Defense newsletter. For more on our industry-leading products and solutions, plus informative videos, white papers, webcasts, and other information to help speed your design, please visit our [aerospace and defense homepage](#).

Featured Aerospace and Defense Solutions

ADPA9002: GaAs, pHEMT, MMIC, Single Positive Supply, DC to 10 GHz Power Amplifier

Features

- ▶ DC to 10 GHz > 1 W power amplifier
- ▶ Self-biased single positive supply with optional bias control for current adjustment
- ▶ Positive gain slope for easier power leveling over frequency
- ▶ Provides high linearity and is internally matched to 50 Ω impedance

Applications

- ▶ Electronic warfare

ADPA9002

[Data Sheet](#)



[Buy Now](#)



[Eval Kit](#)



AD9217: 12-Bit, 6 GSPS/10.25 GSPS, RF Analog-to-Digital Converter

Features

- ▶ 10.0 GSPS sampling rate enables direct RF signal processing architecture for a wide array of applications
- ▶ Enables direct RF sampling into the second Nyquist zone of wideband signals greater than 7 GHz
- ▶ Simplifies system design with an internal clock divider and optional RF clock output
- ▶ Parallel output interface bus provides optimized latency of data transfer for faster signal processing; optional JESD204B interface

Applications

- ▶ Electronic warfare (electronic counter measures)

AD9217

[Data Sheet](#)



[Buy Now](#)



[Eval Kit](#)



ADTR1107: 6 GHz to 18 GHz, Front-End IC

Features

- ▶ Compact 6 GHz to 18 GHz front-end IC in a 5 mm

Applications

- ▶ Phased array antenna

- ▶ × 5 mm land grid array (LGA) package
- ▶ Provides high output power in transmit mode and a low noise figure in receive mode
- ▶ Enables fast switching speed as required in most phased array applications
- ▶ Includes an integrated coupler on the transmit path for power detection and is internally matched to 50 Ω impedance
- ▶ Military radar
- ▶ Weather radar
- ▶ Communication links
- ▶ Electronic warfare

ADTR1107 | [Data Sheet](#)  | [Buy Now](#)  | [Eval Kit](#) 

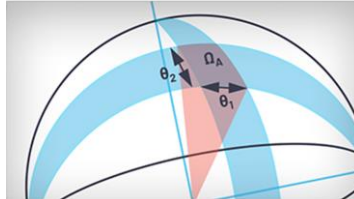
Additional Resources



Video: Microwave Journal Interview

Bryan Goldstein, VP and GM of ADI's Aerospace and Defense Group, discusses opportunities, trends, and disruptions in the industry.

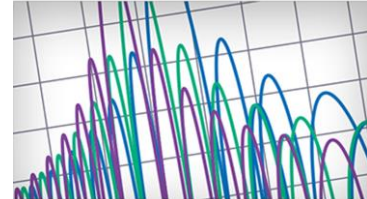
[Watch the Video](#) 



Article: Linear Array—Beam Characteristics and Array Factor (Part 1)

Read the first part of this 3-part series for engineers working on subsystems or components used in phased array.

[Read Now](#) 



Article: Grating Lobes and Beam Squint (Part 2)

The second part of the phased array antenna pattern series continues with an overview of grating lobes and their similarities to signal aliasing in digital converters.

[Read Now](#) 

For more details, visit analog.com/adev.

Our relationship with you is very important.

To manage your newsletter subscriptions, visit our [subscription center](#). To no longer receive any email communications from Analog Devices, [click here](#).

[View our privacy policy](#).

©2020 Analog Devices, Inc.

All Rights Reserved. Trademarks and registered trademarks are the property of their respective companies.

Analog Devices, Inc.
Corporate Headquarters
One Technology Way
Norwood, MA 02062
U.S.A.

JOIN THE CONVERSATION

