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Analog Devices Introduces Ka-Band HPA and Block Upconverter for Single-Carrier Satellite Communications Equipment

NORWOOD, Mass.--(BUSINESS WIRE)-- [Analog Devices, Inc.](http://www.analog.com) (NASDAQ: ADI) introduced today two [Ka-band](#) devices for use in single-carrier satellite communications. The HMC7053 [block upconverter](#) and HMC7054 [high-power amplifier](#) (HPA) operate in the 29- to 31-GHz frequency output range, feature -60-dBc spurious-free dynamic range performance and cover both commercial and military bands while meeting military environmental conditions.

- Download data sheet, view product page and order samples:
 - <http://www.analog.com/HMC7053>
 - <http://www.analog.com/HMC7054>
- For more information on Analog Devices' aerospace and defense solutions: <http://www.analog.com/aero-def>
- Connect with engineers and experts on EngineerZone™, an online technical support community: <https://ez.analog.com/community/hittite-microwave-and-analog-devices-support-collaboration-group>

The HMC7053 fully integrated Ka-band block upconverter is upconverted to 29 to 31 GHz at a linear output power of -30 to 5 dBm. The device features a 1- to 2-GHz dual input IF at 0 dBm typical and 20-dB conversion gain. The new module was designed with a dual upconversion scheme to ensure no phase inversion and maximum spurious rejection. Other features include dual L-band inputs, an SMA input and a 2.9-mm output connector, digital gain control and thermal monitoring and gain compensation.

The HMC7054 fully integrated Ka-band HPA achieves linear output power of 37 dBm, a 42-dB small signal gain and operates at 5 V while drawing 14 amps. The new device has a 2.9-mm input connector and WR28 waveguide output. Both the block upconverter and HPA are designed for conduction cooling and operate over the -20 °C to +80 °C temperature range.

Pricing and Availability

Product	Production Availability	Size	Weight
HMC7053 Block Upconverter	NOW	5.72" x 4.51" x 1.63"	0.6 lbs
HMC7054 HPA	NOW	5.0" x 4.51" x 1.145"	1.6 lbs

About Analog Devices

Innovation, performance, and excellence are the cultural pillars on which Analog Devices has built one of the longest standing, highest growth companies within the technology sector. Acknowledged industry-wide as the world leader in data conversion and signal conditioning technology, Analog Devices serves over 60,000 customers, representing virtually all types of electronic equipment. Celebrating over 40 years as a leading global manufacturer of high-performance integrated circuits used in analog and digital signal processing applications, Analog Devices is headquartered in Norwood, Massachusetts, with design and manufacturing facilities throughout the world. Analog Devices' is included in the S&P 500 Index.

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