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PRODUCTS NEWS

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Next Generation Power Op Amp Combines 1700 V/ μ s Slew Rate, 900 V Supply Operation and Low Noise Density for Applications Demanding High Speed and High Accuracy

*Housed in a compact 57 mm x 30 mm package,
Apex's newest hybrid provides a low noise density of ~ 5 nV/VHz @ 1 kHz*

TUCSON, Arizona, U.S.A. – June 12, 2018 – Apex Microtechnology continues to drive the leading edge of technology innovation for high speed, high voltage power operational amplifiers that can deliver precision high voltage at fast speeds in a variety of applications where speed and accuracy are a must. The new PA194 is a refined implementation of the Apex PA94, extending slew rate capabilities by +1,000 V/ μ s.

The PA194 has a typical slew rate of 1700 V/ μ s to enable fast rise and fall times on supply voltage operation of up to 900 V, and a very low noise density of ~ 5 nV/VHz @ 1 kHz. The PA194 has a continuous output current capability of 100 mA and exhibits just 4 mA of quiescent current with an integrated standby mode for increased efficiency. This amplifier is available in an 8-pin power SIP package with heat tab and can dissipate up to 30 watts.

“Designers looking to apply very high levels of voltage with precision and speed will certainly want to evaluate the PA194,” explains Apex Strategic Marketing Director Jens Eltze. “We designed this power amplifier to operate with enhanced efficiency and reliability while lowering noise density within the electrical circuitry. The end result will be an increase in overall end-system performance.”

A wide range of target applications include industrial instrumentation, semi-cap test equipment and SEM analysis tools using electron beam focusing, particle deflection and piezoelectric positioning.

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In terms of electrical performance comparisons, the table below stacks up the PA194 and PA94.

SPECIFICATION PARAMETER	PA194	PA94
Slew rate	1700 V/ μ s	700 V/ μ s
Supply voltage operation	900 V	900 V
Output current continuous	100 mA	100 mA
Output current PEAK	200 mA	200 mA
Internal power dissipation	30 W	30 W
Onboard over current protection	Yes	Yes
Power Bandwidth	675 kHz	300 kHz
Package style	8-pin Power SIP, GN style, heat tab on back	8-pin Power SIP, DQ style, heat tab on back

Pricing, Availability and Evaluation Tools

Sample units of the PA194 are available now for qualified applications, with production volumes targeted for Q4 2018. Per unit pricing is available by contacting a local Apex sales representative or distributor. The EK66 is the evaluation kit for rapid prototyping with the PA194 and is scheduled to be available in early Q3 2018. Complete product information is online at <https://www.apexanalog.com/products/pa194.html>. For technical support, contact Apex applications engineering at 800-546-2739, or apex.support@apexanalog.com.

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Apex Microtechnology is an industry leader in high power analog components, designed to meet the performance and cost design targets of our customers' precision control applications. Apex Microtechnology is headquartered in Tucson, AZ, USA. More information about Apex Microtechnology is available at www.apexanalog.com.

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