

PRESS RELEASE

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XC6501 Series LDO Regulators with a Mounting Area of 0.9 mm x 1.2 mm with No Need for an Output Capacitor

TOREX SEMICONDUCTOR LTD. (Chuo-Ku, Tokyo: President, Tomoyuki Fujisaka) announces a reduction in mounting area of about 44% (compared to previous Torex products) in the XC6501 series of low-supply current, high-speed LDO regulators which don't need an output capacitor.

By incorporating the XC6501 series in a new USPN-4 package (0.9 x 1.2 x h0.4mm), a reduction of about 44% has been achieved over the previous USP-4 package (1.2 x 1.6 x h0.6mm).

The output voltage range is 1.2V to 5.0V (steps of 0.05V). Maximum output current is 200mA and the input voltage range is 1.4V to 6.0V. Internal phase compensation enables stable operation even without an output capacitor. Space saving is achieved through a reduced component count and the use of a small package.

The XC6501 series has both low supply current and high-speed characteristics, and excellent load-transient response.

This series is ideal for use in cell phones and other information communication devices that continue to become smaller and lighter.

【XC6501 Series Features】

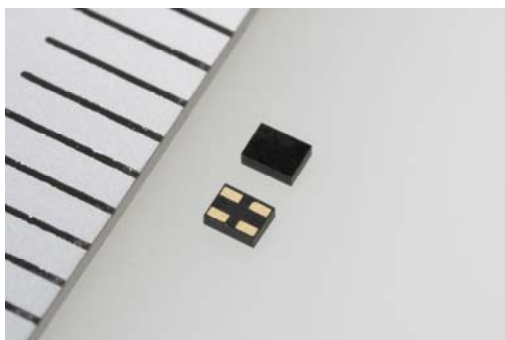
Stable operation is possible without an output capacitor

Contributes to space saving and component count reduction.

High ripple rejection (50dB@f=1kHz, $V_{OUT}=2.8V$) at a low supply current (13 $\mu A@V_{OUT}=2.8V$).

Includes an ON/OFF function

Includes a current limiter (300mA, typical) and short-circuit protection circuit



▲ USPN-4 (0.9mm x 1.2mm x h0.4mm)

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