



Toshiba adds new 4-channel linear power amplifier for car audio

Highly efficient solution features 45 Watt output

Düsseldorf, Germany, 7th November 2018 – Toshiba Electronics Europe (“Toshiba”) today announced the launch of a new 4-channel high-efficiency linear power amplifier for in-vehicle audio applications that delivers the performance and sound quality that electronic engineers demand.

The TCB702FNG can be used as a power amplifier or line output amplifier, delivering a maximum output power of 45W into a 4Ω load. High fidelity output is achieved through a total harmonic distortion (THD) of just 0.02% with output noise levels as low as 60 μVrms. The new amplifier is housed in a 36-pin HSSOP package and is pin-compatible with the company’s TCB701FNG high efficiency 50W linear power amplifier, offering flexibility to designers.

In developing the TCB702FNG, Toshiba has improved on its technology to realize efficiency levels that are comparable with a digital high efficiency, class D amplifier across the actual operating range of 0.5 to 4W. As a result, the power consumption of the new device is reduced by up to 80% when compared to a typical class AB amplifier.

The TCB702FNG includes a self-diagnosis function with I²C bus control that can diagnose errors such as crossed output connections. It also includes full-time error detection of any output DC offset voltage, which can quickly detect abnormal output offset voltages and prevent speaker burnout, improving system reliability. Other inbuilt protections include over voltage and low voltage.

Supporting 6V operation ensures that the TCB702FNG is compatible with vehicles that have idling reduction system as well as suppressing 'popping' sounds due to fluctuating supply voltages.

Sample shipments start today with mass production scheduled to begin in the first quarter of 2019.

For more information about this new product, please visit <https://toshiba.semicon-storage.com/eu/product/assp/audio-ic/detail.TCB702FNG.html>

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About Toshiba Electronics Europe

[Toshiba Electronics Europe GmbH](#) (TEE) is the European electronic components business of [Toshiba Electronic Devices and Storage Corporation](#). TEE offers European consumers and businesses a wide variety of innovative hard disk drive (HDD) products plus semiconductor solutions for automotive, industrial, IoT, motion control, telecoms, networking, consumer and white goods applications. The company's broad portfolio encompasses integrated wireless ICs, power semiconductors, microcontrollers, optical semiconductors, ASICs, ASSPs and discrete devices ranging from diodes to logic ICs.

TEE has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom providing design, manufacturing, marketing and sales. Company president is Mr. Tomoaki Kumagai.

For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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