



Toshiba adds power amplifier IC adopting pure MOS for car audio

New highly-featured device is available in a surface mount package

Düsseldorf, Germany, 15 February 2018 – Toshiba Electronics Europe has added a new high sound quality, low distortion, surface mount product, to its line-up of 4-channel power ICs for automotive applications. The new TCB001FNG is based upon a pure complementary MOS process that is derived from Toshiba's car audio IC research and development and reduces cost.

The new product includes functions to detect and prevent abnormal noise with Toshiba's original filtering technology. This is particularly applicable in situations when a device emitting high frequency noise such as a mobile phone is brought close to the audio system.

The TCB001FNG has a maximum output power of 45W in a 4-channel system into a 4Ω load. The supply can vary from 6V to 18V, allowing operation while the engine is idling or cranking. The comprehensive solution includes in-built functionality such as mute, standby, offset detection and short detection.

Also included are multiple protection circuits including thermal shutdown, overvoltage, short to V_{CC} , short to GND and output-to-output short.

Replacing the popular HZIP leaded package, the new TCB001FNG is housed in a flat HSSOP surface mount package. This package style contributes to system reliability and reduces assembly complexity and cost.

Mass production has started.

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About Toshiba Electronics Europe

Toshiba Electronics Europe (TEE) is the European electronic components business of Toshiba Electronic Devices and Storage Corporation. TEE offers a broad IC and discrete product line including high-end memory, microcontrollers, ASICs and ASSPs for automotive, multimedia, industrial, telecoms and networking applications. The company also has a wide range of power semiconductor solutions as well as storage products including HDDs, SSDs, SD Cards and USB sticks.

TEE was formed in 1973 in Neuss, Germany, providing design, manufacturing, marketing and sales and now has headquarters in Düsseldorf, Germany, with branch offices in France, Italy, Spain, Sweden and the United Kingdom. TEE employs approximately 300 people in Europe. Company president is Mr Akira Morinaga. For more company information visit TEE's web site at www.toshiba.semicon-storage.com.

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