**TDK Corporation – Press kit content**

**Embedded Motor Control**

**TDK expands embedded motor controller family to target high temperature environments**

* HVC 4222F and HVC 4422F are Arm® M3 based motor drivers with 32k and 64k flash memory
* Fully specified and tested up to 160 °C junction temperature
* Target applications include automotive drive-train and thermal management systems

**Magnetic Field Sensors**

**TDK offers new stray-field compensated 3D HAL® sensors with redundancy function and digital output interfaces**

* New dual-die 3D position sensor family HAR® 39xy (HAR 3900 and HAR 3930) based on Hall-effect allows active stray-field compensation
* Fully redundant devices in SSOP16 package
* Highly flexible device architecture supports various digital interfaces (SPI, PWM output and SENT according to SAE J2716)

**TDK provides its stray-field robust 3D HAL® position sensors now with integrated decoupling capacitors**

* New 3D sensors based on Hall-effect allow active stray-field compensation of homogenous and gradient fields
* Single-mold three-pin TO92UF leaded package with integrated capacitors
* Highly flexible device architecture supports various digital interfaces (2-wire and 3-wire PWM output, SENT according to SAE J2716 rev. 2016 and PSI5 rev. 2.x)

**TDK introduces small redundant analog TMR angle-sensor**

* TAS4240 is a compact, cost-effective, redundant, half-bridge TMR-based sensor for angle and position detection
* High stability over temperature, magnetic-field range, and lifetime
* Provides accurate and redundant rotor position measurement needed in safety-relevant applications like power steering motors

**Temperature Sensors**

**Robust temperature sensor for E-mobility**

* TDK Corporation presents the new B58703M1103A temperature sensor − specially developed for demanding E-mobility applications, which call for high long-term stability.
* The NTC sensor is designed for a temperature range of -40°C to +150°C, whereby a temporary load of up to 200°C is permitted.

**TDK offers clip-on NTC sensors for heat pumps in e-mobility**

* Ein Bild, das rot enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE:6762) presents the new B58101A0109A (HP100) series of heat pump sensors for measuring the refrigerant temperature indirectly via the pipes' surface temperature.
* The NTC-based sensors are specifically designed to meet automotive requirements.
* Standard for pipe diameters of 12.8 mm, this clip-on design can operate in harsh environments from -40 °C to +150 °C and is water immersion resistant for up to 500 hours.

**Passive Components**

**TDK offers hybrid polymer capacitors with considerably enhanced ripple current capability**

* Ein Bild, das Text enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE: 6762) presents with the B40640B\* and B40740B\* series hybrid polymer capacitors with a very high ripple current capability increased by up to 29 per cent compared to preceding types.
* The ripple current capability is now up to 35 A (20 kHz, 125 °C). The new types are designed for a rated voltage of 63 V, cover a capacitance range from 390 µF to 720 µF, and offer an extremely low ESR value.

**TDK extends HVC offerings with addition of new compact, high-voltage contactors**

* Ein Bild, das Text enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE: 6762) has extended its range of bipolar DC high-voltage contactors to include the new HVC43 (B88269X3\*\*0C011) series.
* These products complete the existing range by offering continuous currents from 150 A DC to 250 A DC and operating voltages of up to 1000 V DC.
* The contactors are available in 12 V or 24 V coils with a power consumption of 6 W.

**TDK offers compact transformers with EP 6 cores for ultrasonic applications**

* Ein Bild, das Elektronik enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE:6762) presents the new B78416A\* series of compact EPCOS transformers with EP 6 cores for ultrasonic applications.
* The series comprises five types with transformation ratios between 1:1:8.42 and 1:1:15.
* Depending on the type, the new SMD-version transformers offer inductance values between 3 mH and 5 mH and are suitable for frequencies between 52 kHz and 300 kHz.

**TDK offers shielded SMT power inductors with saturation currents of up to 80 A**

* Ein Bild, das Elektronik, Buchse, Adapter enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE: 6762) introduces the new PCM120T series of shielded SMT power inductors, optimized for high saturation currents and low DC resistances.
* The PCM120T product family includes 14 inductance values between 0.4 µH and 10 µH, whereby saturation currents of up to 80 A are reached depending on the L value.

**TDK offers new Y2 capacitors for high-temperature requirements**

* Ein Bild, das Text enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE:6762) presents a new series of EPCOS MKP-Y2 capacitors for interference suppression.
* In contrast to conventional models designed for a maximum operating temperature of 110 °C, the new capacitors offer a maximum permissible operating temperature of 125 °C.

**TDK offers extremely compact and reliable CLT power inductors for ADAS/AD power management**

* Ein Bild, das Text enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE:6762) presents the CLT32 series power inductors with extremely compact dimensions and excellent electrical values thanks to their new design.
* The nine types cover an inductance range of 17 nH to 440 nH and are designed for 13.5 A to 60 A saturation currents.

**TDK offers compact SMT transformers with high dielectric strength for DC-DC converters**

* Ein Bild, das Elektronik enthält.

  Automatisch generierte BeschreibungTDK Corporation (TSE:6762) presents the EPCOS E13EMHV series of compact SMT transformers with high dielectric strength for a wide range of DC-DC converter topologies.
* The isolation distances comply with IEC 60664-1, 61558-2-16 standard, achieving a high working voltage of 1000 V DC.
* Transient overvoltages of up to 2500 Vpeak are permitted.

**TDK announces new ultra-low profile µPOL™ DC-DC converters**

* Ein Bild, das Text, Elektronik, Schaltkreis enthält.

  Automatisch generierte BeschreibungAdvanced ultra-low profile packaging and 3D technology are key drivers for next-generation high performance energy efficient designs
* High-density solution for space-constrained applications requiring a low-profile power source
* Scalable and highly configurable with multi-time programmable memory, offering a wide range of flexibility using Digital Communication (I2C and PMBUS)

**Power Supplies**

**New 1U high 7,500W programmable power supply series offers models from 0-20V 375A to 0-1,500V 5A**

* TDK announces the introduction of very high power density 7,500W rated 1U high models to the TDK-Lambda GENESYS+™ series of programmable power supplies.
* Initially, six models will be available capable of providing outputs from 0 to 20V at 375A through to 0 to 1,500V at 5A.
* The output power of the product enables system configurators to avoid the need to parallel lower wattage power supplies, reducing the rack or cabinet size.

Company backgrounder

Company presentation

Contacts for members of the press