BOURNS®

NEW PRODUCT **RELEASE**

MAGNETICS

Bourns Releases New AEC-Q200 Compliant, Automotive Grade Model PKSEP6B08S Impedance Matching Transformer

Riverside, California - May 27, 2025 – Bourns Custom Magnetics Product Line is introducing the Model PKSEP6B08S Impedance Matching Transformer for driving ultrasonic transducers. The Model PKSEP6B08S launches with 3.18 mH inductance and a 7.9:1 turns ratio, with extended and customized values encouraged. It also features frequency ranges between 50 kHz and 300 kHz and above and temperature ratings from -40 °C to +90 °C.

The Model PKSEP6B08S Impedance Matching Transformer platform enables ideal impedance matching between ultrasonic transducers and driver integrated circuits. Target applications include, but are not limited to, automotive parking assistance, industrial robots, drones, logistics robots, automated guided vehicles (AGVs), and fill level measurement systems.

Characteristics:

Bourns Part Number	Inductance @51.2k /1 V		Turns Ratio		DCR Max.		Hi-Pot 1 sec /3 mA
PKSEP6B08S	(6-4)	3.18 mH ± 8%	(6-4) : (1-2) (6-4) : (2-3)	7.9 : 1± 2%	(1-2) (2-3) (6-4)	1.8 Ω 1.8 Ω 37.5 Ω	N1 to N2 N1 to core 575 V

The product data sheet with detailed specifications can be viewed on the Bourns website at www.bourns.com/products/magnetic-products/transformers-power. Contact Bourns Customer Service / Inside Sales if you have any questions.

Features

- Ferrite Core
- EP 6 SMD type
- Shielding for optimized EMC-behavior
- 5 U-shape terminals
- Operating temperature: -40 °C to +90 °C
- RoHS compliant*
- AEC-Q200 compliant
- AUTOMOTIVE GRADE

Applications

- Ultrasonic sensor
- Ultrasonic park assist
- Industrial distance measuring
- Robotics

Additional Information

DATA SHEET | PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

** RoHS Directive 2015/863, Mar 31, 2015 and Annex.*

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