

Low Profile High Current Power Inductors

For Standard, Automotive, and Industrial Applications

Abrakon introduces multiple series of next generation power inductors optimized for a wide range of applications from high power automotive and industrial grade to medium power low profile solutions down to ultra-compact wearable devices, and IoT. The product line features miniature chip inductors in packages as small as 1.6 x 0.8 x 0.8mm with RMS current carrying up to 5A and automotive grade inductors with up to 118A of saturation current. The automotive grade inductors support AEC-Q200 grade 0 or 1 (-55°C to 155°C or -40°C to +125°C), PPAP level 3 and TS-16949 qualified manufacturing.

AUTOMOTIVE

Navigation
 Body electronics & comfort system
 Infotainment & entertainment

APPLICATIONS

Transportation Lighting, LED ballasts Solar inverters & solar power Battery Operated Devices	Audio & Video Motor control Industrial applications Medical & medical monitoring	IoT/Industrial IoT (IIoT) Drones & Robotics Energy Efficient Lighting DC/DC converters & switch mode power supplies
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COMPACT MINIATURE

ASPI-U | Ultra performance wire-wound power inductor



2.5 x 2.0 x 1.0
2.0 x 1.6 x 1.0

Current Range (A): 1.30 - 10.0
Inductance Range (µH): 0.12 - 4.70

ASPI-M | Low profile high current inductors



2.5 x 2.0 x 1.2
3.0 x 3.0 x 1.5

Current Range (A): 1.30 - 8.0
Inductance Range (µH): 0.24 - 10.0

ASMPL | Low profile multilayer power inductor



1.6 x 0.8 x 0.5
2.0 x 1.25 x 0.5

Current Range (A): 0.35 - 1.45
Inductance Range (µH): 0.22 - 2.20

ASMPM | Metal alloy multilayer high power chip inductor



2.0 x 1.6 x 1.0

Current Range (A): 1.10 - 3.60
Inductance Range (µH): 0.47 - 4.70

ASPIAIG-F | Shielded SMD power inductor



As small as
4.1 x 4.1 x 1.9 (sizes vary)

Current Range (A): 4.40 - 36.0
Inductance Range (µH): 0.10 - 8.20

ASPIAIG-S4035 | AIG shielded SMD power inductor



4.0 x 4.0 x 3.5

Current Range (A): 0.55 - 6.90
Inductance Range (µH): 1.0 - 150.0

ASPIAIG-Q(LR)4020 | AIG molded power inductor



4.1 x 4.1 x 1.9

Current Range (A): 3.50 - 33.0
Inductance Range (µH): 0.10 - 4.70

ASPIAIG-F1x | AIG molded power inductor



11.0 x 10.0 x 3.8
13.5 x 12.5 x 6.2

Current Range (A): 2.50 - 118.0
Inductance Range (µH): 0.15 - 82.0

AUTOMOTIVE GRADE