

Select Bourns® AEC-Q200 Compliant High Current Shielded Power Inductors are Now Qualified as Automotive Grade Standard Components


Riverside, California – May 31, 2024 – The AEC-Q200 Compliant [Model SRP2010TMA](#), [SRP2012TMA](#), [SRP2510TMA](#), [SRP2512TMA](#), and [SRP3212A](#) Series High Current Shielded Power Inductors are now approved as automotive grade standard components. A list of affected part numbers is included on the following page.

These inductors provide compact sizes and low profiles, with heights of 0.8 mm and 1 mm. The affected series are manufactured with metal alloy powder cores featuring high saturation currents, high heating currents, and shielded construction for low magnetic field radiation. Additionally, the flat wire construction significantly reduces the DCR compared to other similar-sized devices, making these power inductors highly efficient.

The Model SRP2010TMA, SRP2012TMA, SRP2510TMA, SRP2512TMA, and SRP3212A Series offer operating temperatures up to +150 °C. Their small footprint and low profile make these inductors well-suited for applications in wearable devices, HDDs, SSDs, smartphones, and LCD displays.

Model	Size (mm)	Inductance (μH)	Heating Current I_{rms} (A)	Saturation Current I_{sat} (A)	Operating Temperature (°C)
SRP2010TMA	2 x 1.6 x 0.8	0.24 – 2.2	2.3 – 6.5	2.65 – 7.7	-55 to +150 °C
SRP2012TMA	2 x 1.6 x 1	0.22 – 2.2	2.5 – 7	2.7 – 8	-55 to +150 °C
SRP2510TMA	2.5 x 2 x 0.8	0.22 – 2.2	2.8 – 7.2	3 – 7.7	-55 to +150 °C
SRP2512TMA	2.5 x 2 x 1	0.24 – 2.2	3.1 – 7.3	3.4 – 7.8	-55 to +150 °C
SRP3212A	3.2 x 2.5 x 1	0.33 – 4.7	2.2 – 8.5	2.88 – 9.1	-40 to +150 °C

Features

- Compact size
- Shielded construction
- Low radiation
- High saturation and high heating current
- Flat wire
- Low DCR
- AEC-Q200 compliant
- RoHS compliant* and halogen free**
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Applications

- Automotive
- DC-DC converters in consumer, industrial and telecom electronics
- Wearable devices
- HDDs, SSDs
- Smartphones
- LCD displays

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

** Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.



Affected Part Numbers	
SRP2010TMA-1R0M	SRP2510TMA-R33M
SRP2010TMA-1R5M	SRP2510TMA-R47M
SRP2010TMA-2R2M	SRP2510TMA-R68M
SRP2010TMA-R24M	SRP2512TMA-1R0M
SRP2010TMA-R33M	SRP2512TMA-1R5M
SRP2010TMA-R47M	SRP2512TMA-2R2M
SRP2010TMA-R56M	SRP2512TMA-R24M
SRP2010TMA-R68M	SRP2512TMA-R33M
SRP2012TMA-1R0M	SRP2512TMA-R47M
SRP2012TMA-1R5M	SRP2512TMA-R68M
SRP2012TMA-2R2M	SRP3212A-1R0M
SRP2012TMA-R22M	SRP3212A-1R5M
SRP2012TMA-R33M	SRP3212A-2R2M
SRP2012TMA-R47M	SRP3212A-3R3M
SRP2012TMA-R68M	SRP3212A-4R7M
SRP2510TMA-1R0M	SRP3212A-R33M
SRP2510TMA-1R5M	SRP3212A-R47M
SRP2510TMA-2R2M	SRP3212A-R68M
SRP2510TMA-R22M	

If you have any questions or need additional information, please feel free to [contact Customer Service/Inside Sales](#).