### TH Power Inductors – AGP2923

- AEC-Q200 Grade 1 qualified
- Ideal for a variety of automotive applications
- Designed for high temperature environments – up to 140°C ambient
- Developed for high current power supply applications with high saturation current requirements
- Through-hole vertical mounting allows for a small footprint
- Four additional mounting pins provides stability and excellent board adhesion in high-vibration environments
- Flat wire windings for extremely low DC and AC resistance

**Part number** | **Inductance ±10% (µH)** | **DCR (mOhms)**<sup>2</sup> | **SRF typ**<sup>3</sup> | **Isat (A)**<sup>4</sup> | **Irms (A)**<sup>5</sup> |
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1. Inductance tested at 300 kHz, 0.1 Vrms on Agilent/HP 4192A.
2. DCR measured on a Keithley 580 micro-ohmmeter or equivalent.
3. SRF measured on an Agilent/HP 4395A network analyzer and an Agilent/HP 16093B test fixture.
4. DC current at 25°C that causes the specified inductance drop from its value without current. Click for temperature derating information.
5. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings. Click for temperature derating information. When Irms is greater than Isat, Isat is the more critical specification and Irms is shown in gray type.
6. Electrical specifications at 25°C.

Refer to Doc 362 “Soldering Surface Mount Components” before soldering.

Core material: Ferrite
Core and winding loss: See www.coilcraft.com/coreloss
Terminations: Electrical terminations: RoHS compliant tin-silver over copper
Mounting pins: Matte tin over copper over steel
Weight: 37 g
Ambient temperature: –40°C to +140°C with Irms current
Maximum part temperature: +180°C (ambient + temp rise). Derating.
Storage temperature: Component: –40°C to +180°C.
Tray packaging: –40°C to +80°C
Moisture Sensitivity Level (MSL): 1 (unlimited floor life at <30°C / 85% relative humidity)
Failures in Time (FIT) / Mean Time Between Failures (MTBF): 38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332
Packaging: 25 parts per tray

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Through Hole Power Inductors – AGP2923 Series

L vs Current

L vs Frequency

Dimensions are in inches