Shielded Power Inductors – VER2923

- Designed for high current power supply applications with saturation current ratings to over 100 Amps
- Ideal for use in Class-D applications
- Flat wire windings provide extremely low DC and AC resistance
- Vertical mounting provides a small footprint

Core material: Ferrite
Core and winding loss: See www.coilcraft.com/coreloss
Terminations: RoHS compliant tin-silver over copper. Other terminations available at additional cost.
Weight: 37 g
Ambient temperature: –40°C to +85°C with (40°C rise) IRms current.
Maximum part temperature: +125°C (ambient + temp rise). Derating.
Storage temperature: Component: –40°C to +125°C.
Tape and reel 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

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance ±10% (µH)</th>
<th>DCR (mOhms)</th>
<th>SRF typ (MHz)</th>
<th>Isat (A)</th>
<th>Irms (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nom</td>
<td>Max</td>
<td></td>
<td>10% drop</td>
<td>20% drop</td>
</tr>
<tr>
<td>VER2923-332KL</td>
<td>3.3</td>
<td>2.3</td>
<td>2.6</td>
<td>40</td>
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<td>4.7</td>
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<td>2.6</td>
<td>30</td>
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<td>VER2923-682KL</td>
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<td>25</td>
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<td>10</td>
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</tr>
</tbody>
</table>

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 8753ES network analyzer.
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.
6. Electrical specifications at 25°C.

Caution: This series is not intended for use in high vibration environments. We advise using additional means of securing the part to the circuit board to ensure its adhesion.

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Shielded Power Inductors – VER2923 Series

L vs Current

L vs Frequency

Inductance (µH)

Current (A)

Frequency (MHz)

Recommended PC Board Layout

Dimensions are in inches

RoHS Compliant

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