**Power Filter Inductor**

For Zetex ZXCD1210 Analog Input Class D Modulator

This toroidal choke was developed for Zetex Semiconductors ZXCD1210 High performance analog input Class D modulator. This application provides up to 500 Wrrms into 4 Ohms. The ED0006-AL is the low pass filter for the high frequency switching PWM signal, enabling recovery of the lower frequency audio signal.

Request free evaluation samples by contacting Coilcraft or visiting www.coilcraft.com.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance $\pm 20%$ (µH)</th>
<th>DCR max (mOhms)</th>
<th>SRF min (MHz)</th>
<th>Isat (A)</th>
<th>$I_{rms}$ (A)$^3$ $20^\circ$C rise</th>
<th>$40^\circ$C rise</th>
</tr>
</thead>
<tbody>
<tr>
<td>ED0006-AL</td>
<td>20</td>
<td>42</td>
<td>13</td>
<td>36.0</td>
<td>5.1</td>
<td>7.2</td>
</tr>
</tbody>
</table>

1. Inductance measured at 100 kHz, 100 mVrms, 0 Adc using an Agilent/HP 4132 impedance analyzer or equivalent.
2. DCR measured on a Valhalla 4105 ATC digital ohmmeter or equivalent.
3. DC current at which the inductance drops 10% (typ) from its value without current.
4. Current that causes the specified temperature rise from 25°C ambient.
5. **Ambient temperature range**: $-40^\circ$C to $+125^\circ$C with $I_{rms}$ current $+125^\circ$C to $+165^\circ$C with derated current
6. **Storage temperature range**: Component: $-40^\circ$C to $+165^\circ$C
   Packaging: $-40^\circ$C to $+80^\circ$C.
7. Electrical specifications at 25°C.

**Weight:** 30.8 g
**Terminations:** Tin-silver-copper over copper
**Packaging:** 25 per tray
Power Filter Inductor – ED0006-AL

L vs Current

L vs Frequency