The Coilcraft A9807-A ADSL transformer and A9806-A low-pass inductor are designed specifically for Infineon’s GEMINAX ADSL chipset for use in CO, DLC, and DSLAM linecard applications.

ADSL Transformer

<table>
<thead>
<tr>
<th>Part number</th>
<th>Line side inductance$^1$ (mH)</th>
<th>Leakage inductance$^2$ max (µH)</th>
<th>DCR max (Ohms)</th>
<th>Turns ratio</th>
<th>Dielectric strength (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9807-A</td>
<td>1.40 ±5%</td>
<td>10.0</td>
<td>0.59 (8-6), 0.514 (7-5)</td>
<td>2.15 (1-3, 2-4)</td>
<td>1.333:1 1500</td>
</tr>
</tbody>
</table>

Longitudinal balance THD Designed to meet

- 40.0 (20 kHz – 1.1 MHz)
- –80 @ 30 kHz
- UL 1950, EN 60950

1. Inductance measured at 10.0 kHz, 0.1 Vrms, 0.03 Adc.
2. Leakage inductance measured at 100.0 kHz, 0.1 Vrms.
3. Operating temperature range –40°C to +85°C.
4. Electrical specifications at 25°C.

The A9807-A is the main component of the high-pass filter section ensuring that low-frequency, high-level POTS signals do not enter the ADSL front end components.

The A9806-A inductor is the low-pass filter in the Integrated Voice and Data (IVD) GEMINAX chipset.

For free evaluation samples contact Coilcraft or visit www.coilcraft.com.

Dot over pin 1

Recommended Land Pattern

Tape and reel: 350/13" reel 32 mm tape width
For packaging data see Tape and Reel Specifications section.
Magnetics for the Infineon GEMINAX Chipset

Low-Pass Inductor

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance(^1) (mH)</th>
<th>Leakage inductance(^2) max (µH)</th>
<th>DCR max (Ohms)</th>
<th>Turns ratio chip:line</th>
<th>Dielectric strength (V)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A9806-A</td>
<td>6.8 ±10%</td>
<td>300.0</td>
<td>5.06 (4-6)</td>
<td>1:1</td>
<td>1500</td>
</tr>
</tbody>
</table>

1. Inductance measured at 10.0 kHz, 0.1 Vrms, 0.1 Adc.
2. Leakage inductance measured at 100.0 kHz, 0.1 Vrms.
3. Capacitance measured at 100.0 kHz, 0.1 Vrms.
4. Operating temperature range –40°C to +85°C.
5. Electrical specifications at 25°C.

<table>
<thead>
<tr>
<th>Capacitance(^3) max (pF)</th>
<th>THD typ (dB)</th>
<th>Designed to meet</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0</td>
<td>-80 @ 30 kHz</td>
<td>UL 1950</td>
</tr>
</tbody>
</table>

Tape and reel: 450/13” reel 24 mm tape width
For packaging data see Tape and Reel Specifications section.