Mid-Span PoE Plus Magnetics For 2-Line Systems

This device contains two injector coils designed for 30 Watt PoE applications. Return loss exceeds the requirements of 802.3at specification for the entire frequency range. It maintains OCL of 350 µH up to 20 mA at +85°C ambient.

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

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance min (µH)</th>
<th>Leakage inductance max (µH)</th>
<th>DCR (Ohms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA2536-AL</td>
<td>675.0</td>
<td>0.55</td>
<td>0.240</td>
</tr>
</tbody>
</table>

1. When ordering, please specify packaging code:

   **FA2536-AL**

   **Packaging:**
   - **D** = 13” machine-ready reel. EIA-481 embossed plastic tape (400 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   - **B** = Less than full reel. An effort to simplify our part numbering system, Coilcraft is eliminating the need for multiple packaging codes. When ordering, simply change the last letter of your part number from B to D.

2. Inductance measured between pins 1 – 3 and between pins 4 – 6 at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4284A impedance analyzer.

3. Leakage inductance is measured between pins 2 and 3 with pins 1 and 3 shorted and between pins 5 and 6 with pins 4 and 6 shorted.

4. DCR is measured between pins 1 – 3 and between pins 4 – 6.

5. Operating temperature range -40°C to +85°C.

6. Electrical specifications at 25°C.

**Recommended Land Pattern**

- **Weight:** 1.56 g
- **Terminations:** Tin-silver-copper over tin over nickel over phos bronze
- **Tape and reel:** 400/13” reel 24 mm tape width

802.3at specification:
- 18 dB min from 1 MHz to 40 MHz
- 16 dB min at 50 MHz
- 12 dB min at 80 MHz
- 10 dB min at 100 MHz

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**Inductance vs Current**

**Return Loss**

**Frequency (MHz)**

- 18 dB min from 1 MHz to 40 MHz
- 16 dB min at 50 MHz
- 12 dB min at 80 MHz
- 10 dB min at 100 MHz

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Specification subject to change without notice.
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