**New!**

**High Current Common Mode Chokes**

- Solutions for use in a wide array of power line circuits
- Ideal for use in consumer electronics and industrial applications
- Suppression of high frequency common mode noise up to 30 MHz
- Excellent current ratings – up to 40 A
- Isolation (hipot) up to 3250 Vrms

**Core material** See part number page for details

**Terminations** RoHS compliant tin-silver-copper over copper

**Weight** See part number page for details

**Ambient temperature** –40°C to +85°C with Irms current

**Maximum part temperature** +125°C (ambient + temp rise)
+105°C (CMH3923-30431L)

**Storage temperature** Component: –40°C to +125°C.
Tray packaging: –40°C to +80°C

**Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

**PCB washing** Tested to MIL-STD-202 Method 215 plus an additional aqueous wash. See Doc787_PCB_Washing.pdf.

### Specifications

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance$^1$ (µH)</th>
<th>DCR$^2$ (mOhms)</th>
<th>Irms$^3$ (A)</th>
<th>Isolation$^4$ (Vrms)</th>
<th>Length max (mm)</th>
<th>Width max (mm)</th>
<th>Height max (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH2617-11340L</td>
<td>11</td>
<td>0.5</td>
<td>40</td>
<td>2500</td>
<td>26</td>
<td>26</td>
<td>17</td>
</tr>
<tr>
<td>CMH3923-30431L</td>
<td>300</td>
<td>1.5</td>
<td>31</td>
<td>2500</td>
<td>39</td>
<td>38</td>
<td>23</td>
</tr>
<tr>
<td>CMH7036-75433L</td>
<td>750</td>
<td>2.0</td>
<td>33</td>
<td>3250</td>
<td>70</td>
<td>70</td>
<td>36</td>
</tr>
<tr>
<td>CMV3532-10516L</td>
<td>1000</td>
<td>5.0</td>
<td>16</td>
<td>2500</td>
<td>35</td>
<td>22</td>
<td>32</td>
</tr>
<tr>
<td>CMH4530-10523L</td>
<td>1000</td>
<td>2.7</td>
<td>23</td>
<td>2500</td>
<td>45</td>
<td>45</td>
<td>30</td>
</tr>
<tr>
<td>CMH3921-10534L</td>
<td>1000</td>
<td>1.5</td>
<td>34</td>
<td>2500</td>
<td>39</td>
<td>38</td>
<td>21</td>
</tr>
<tr>
<td>CMH7018-10535L</td>
<td>1000</td>
<td>2.0</td>
<td>35</td>
<td>2500</td>
<td>70</td>
<td>70</td>
<td>18</td>
</tr>
<tr>
<td>CMH3921-20522L</td>
<td>2000</td>
<td>3.2</td>
<td>22</td>
<td>2500</td>
<td>39</td>
<td>38</td>
<td>21.5</td>
</tr>
<tr>
<td>CMH3815-24516L</td>
<td>2400</td>
<td>5.5</td>
<td>16</td>
<td>2500</td>
<td>38.5</td>
<td>38.5</td>
<td>15.5</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding. Measurement details are part number specific. See part number page for details.
2. DCR is specified per winding.
3. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.
# Common Mode Chokes – CMH2617-11340L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance(^1) min (µH)</th>
<th>(I_{\text{rms}})(^2) (A)</th>
<th>(D\text{CR max})(^3) (mOhms)</th>
<th>Isolation(^4) (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH2617-11340L</td>
<td>99.84 @ 1.7 MHz</td>
<td>11</td>
<td>40</td>
<td>0.5</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. \(D\text{CR}\) is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

---

**Typical Impedance versus Frequency**

- **Differential mode**
- **Common mode**

**Typical Attenuation**

- Dimensions are in inches
- **Core material**: Ferrite
- **Weight**: 13.76 g
- **Packaging**: 96 per tray
- **Recommended Land Pattern**: Epoxy

---

© Coilcraft Inc. 2023
This product may not be used in medical or high risk applications without prior Coilcraft approval.
Specification subject to change without notice.
Please check web site for latest information.
# Common Mode Chokes – CMH3923-30431L

**Dimensions are in inches (mm).**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance$^1$ min (µH)</th>
<th>I rms$^2$ (A)</th>
<th>DCR max$^3$ (mOhms)</th>
<th>Isolation$^4$ (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH3923-30431L</td>
<td>503 @ 2.2 MHz</td>
<td>300</td>
<td>31</td>
<td>1.5</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.

2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.

3. DCR is specified per winding.

4. Isolation (hipot) measured for 1 minute.

5. Electrical specifications at 25°C.

### Typical Attenuation

- **Differential mode**
- **Common mode**

### Typical Impedance versus Frequency

- **Impedance (Ohms)**
- **Frequency (MHz)**
Common Mode Chokes – CMH7036-75433L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance(^1) min (µH)</th>
<th>Irms(^2) (A)</th>
<th>DCR max(^3) (mOhms)</th>
<th>Isolation(^4) (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH7036-75433L</td>
<td>2240 @ 4.4 MHz</td>
<td>750</td>
<td>33</td>
<td>2.0</td>
<td>3250</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.01 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Dimensions are in inches / mm

1.42 max

0.118 ±0.008

2.9 ±0.3

0.177 ±0.02

4.5 ±0.5

Recommended hole diameter cutout: 0.128 / 3.25

Packaging 9 per tray

Core material Nanocrystalline

Weight 223.17 g

Typical Attenuation

Typical Impedance versus Frequency
Common Mode Chokes – CMV3532-10516L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance(^1) min (µH)</th>
<th>Irms(^2) (A)</th>
<th>DCR max(^3) (mOhms)</th>
<th>Isolation(^4) (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMV3532-10516L</td>
<td>1870 @ 8.8 MHz</td>
<td>1000</td>
<td>16</td>
<td>5</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 1 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

**Packaging** 49 per tray

**Core material** Nanocrystalline

**Weight** 28.25 g

Typical Attenuation

![Typical Attenuation Graph]

**Typical Impedance versus Frequency**

![Typical Impedance Graph]
Common Mode Chokes – CMH4530-10523L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance(^1) min (µH)</th>
<th>Irms(^2) (A)</th>
<th>DCR max(^3) (mOhms)</th>
<th>Isolation(^4) (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH4530-10523L</td>
<td>1967 @ 4.9 MHz</td>
<td>1000</td>
<td>23</td>
<td>2.7</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

**Typical Attenuation**

**Typical Impedance versus Frequency**

Dimensions are in inches / mm

**Packaging**
20 per tray

**Core material**
Nanocrystalline

**Weight**
77.04 g
Common Mode Chokes – CMH3921-10534L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance(^1) min (µH)</th>
<th>Irms(^2) (A)</th>
<th>DCR max(^3) (mOhms)</th>
<th>Isolation(^4) (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH3921-10534L</td>
<td>1440 @ 10 MHz</td>
<td>1000</td>
<td>34</td>
<td>1.5</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.065 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minutes.
5. Electrical specifications at 25°C.

**Packaging**

36 per tray

**Core material** Nanocrystalline

**Weight** 51.70 g

**Dimensions are in inches**

Typical Attenuation

Typical Impedance versus Frequency

Recommended Land Pattern

Weight 51.70 g
Common Mode Chokes – CMH7018-10535L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance$^1$ (µH)</th>
<th>Irms$^2$ (A)</th>
<th>DCR max$^3$ (mOhms)</th>
<th>Isolation$^4$ (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH7018-10535L</td>
<td>1040 @ 8.2 MHz</td>
<td>1000</td>
<td>35</td>
<td>2.0</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.065 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Packaging: 9 per tray
Core material: Nanocrystalline
Weight: 107.40 g

Dimensions are in inches/ millimeters.

Typical Attenuation

Typical Impedance versus Frequency
Common Mode Chokes CMH3921-20522L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance max (Ohms)</th>
<th>Inductance¹ min (µH)</th>
<th>Irms² (A)</th>
<th>DCR max³ (mOhms)</th>
<th>Isolation⁴ (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH3921-20522L</td>
<td>2870 @ 5.0 MHz</td>
<td>2000</td>
<td>22</td>
<td>3.2</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0.1 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Typical Attenuation

Typical Impedance versus Frequency

Recommended Land Pattern

Packaging 36 per tray

Core material Nanocrystalline
Weight 52.19 g
Common Mode Chokes – CMH3815-24516L

<table>
<thead>
<tr>
<th>Part number</th>
<th>Common mode impedance (Ohms)</th>
<th>Inductance(^1) min (µH)</th>
<th>Irms(^2) (A)</th>
<th>DCR max(^3) (mOhms)</th>
<th>Isolation(^4) (Vrms)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMH3815-24516L</td>
<td>1830 @ 5.7 MHz</td>
<td>2400</td>
<td>16</td>
<td>5.5</td>
<td>2500</td>
</tr>
</tbody>
</table>

1. Inductance shown for each winding, measured at 10 kHz, 0.1 Vrms, 0 Adc on an Agilent/HP 4263B LCR meter or equivalent.
2. Current flows through both windings connected in series that causes a 40°C rise. This information is for reference only and does not represent absolute maximum ratings.
3. DCR is specified per winding.
4. Isolation (hipot) measured for 1 minute.
5. Electrical specifications at 25°C.

Typical Attenuation

Typical Impedance versus Frequency

Packaging 36 per tray

Core material Nanocrystalline

Weight 30.59 g