High Temp Power Inductors MSS1260T

- Designed for high ambient temperatures – 125°C
- Magnetic shielding, very low DCR, excellent current handling

**Designers Kit C418 contains 3 each of all values**

**Core material:** Ferrite

**Core and winding loss:** See www.coilcraft.com/coreloss

**Terminations:** RoHS compliant matte tin over nickel over phos. Other terminations available at additional cost.

**Weight:** 2.8 g – 3.3 g

**Ambient temperature:** –40°C to +125°C with (40°C rise) Irms current.

**Maximum part temperature:** +165°C (ambient + temp rise). Derating.

**Storage temperature:** Component: –40°C to +165°C. Tape and reel packaging: –40°C to +80°C

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

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

**Packaging:** 500/13º reel; Plastic tape: 24 mm wide, 0.5 mm thick, 16 mm pocket spacing, 6.9 mm pocket depth

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

**Part number**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (µH) typ</th>
<th>DCR (mOhms)</th>
<th>SRF (MHz)</th>
<th>Isat (A)</th>
<th>Irms (A)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSS1260T-102NL</td>
<td>± 10%</td>
<td>1.0</td>
<td>5.8</td>
<td>6.5</td>
<td>100</td>
</tr>
<tr>
<td>MSS1260T-152NL</td>
<td>± 10%</td>
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<td>8.8</td>
<td>9.8</td>
<td>80.0</td>
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<tr>
<td>MSS1260T-222NL</td>
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<td>2.2</td>
<td>11.5</td>
<td>12.8</td>
<td>55.0</td>
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<tr>
<td>MSS1260T-332NL</td>
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<td>12.6</td>
<td>14.0</td>
<td>42.0</td>
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<tr>
<td>MSS1260T-472NL</td>
<td>± 10%</td>
<td>4.7</td>
<td>13.9</td>
<td>15.8</td>
<td>38.0</td>
</tr>
</tbody>
</table>

1. Please specify termination and packaging codes:

**MSS1260T-105KLD**

**Termination:** L = RoHS compliant matte tin over nickel over phos bronze. Special order:

- T = RoHS tin-silver-copper (95.5/4/0.5) or S = non-RoHS tin-lead (63/37).

**Packaging:** D = 13” machine-ready reel.

- EIA-481 embossed plastic tape (500 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. In 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.

**RoHS compliant:** RoHS tin-silver-copper unless otherwise specified.

Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

**Tables:**

<table>
<thead>
<tr>
<th>Part number</th>
<th>Inductance (µH) typ</th>
<th>DCR (mOhms)</th>
<th>SRF (MHz)</th>
<th>Isat (A) typ</th>
<th>Isat (A) max</th>
<th>Irms (A) typ</th>
<th>Irms (A) max</th>
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</thead>
<tbody>
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<td>335</td>
<td>5.5</td>
<td>1.30</td>
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</table>

2. Inductance tested at 100 kHz, 0.1 Vrms, 0 Adc using an Agilent/HP 4263B LCR meter or equivalent.

3. DCR measured on a micro-ohmmeter and a Coilcraft CCF858 test fixture.

4. SRF measured using an Agilent/HP 8753D network analyzer and a Coilcraft SMD-D test fixture.

5. DC current at 25°C that causes the specified inductance drop from its value without current. Click for temperature derating information.

6. 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.

7. Electrical specifications at 25°C. Refer to Doc 362 "Soldering Surface Mount Components" before soldering.
SMT Power Inductors – MSS1260T Series

Typical L vs Frequency

Typical L vs Current

Dash number indicates direction of terminals and start (short) lead. Connect high div/dt here for the lowest EMI.

Parts manufactured prior to August 2011 may have a different part marking.

Recommended Land Pattern

* For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Dimensions before mounting can be an additional 0.012 inch (0.3 mm).

Dimensions are in inches/mm