Coupled Inductors/Transformers  LPH8045

- Three 1:1 windings can be wired in a variety of ways: As a 1:1, 2:1 or 1:2 transformer; as a 1:1 transformer with an aux winding; as a gate drive transformer; as a SEPIC inductor, etc.
- Low DCR; excellent current handling
- 200 Vrms, one minute isolation (hipot) between windings

Core material  Ferrite
Environmental  RoHS compliant, halogen free
Terminations  RoHS compliant matte tin over nickel over silver. Other terminations available at additional cost.
Weight  825 – 875 mg
Ambient temperature  –40°C to +85°C with (40°C rise) Ims current.
Maximum part temperature  +125°C (ambient + temp rise). Derating.
Storage temperature  Component: –40°C to +125°C. Tape and reel 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)

Part number  Inductance±20% (µH)  DCR (Ohms)  SRF typ (MHz)
            typ max
LPH8045-682MR  6.8  0.208 0.223 31.0
LPH8045-822MR  8.2  0.228 0.250 27.4
LPH8045-103MR 10  0.241 0.261 25.0
LPH8045-153MR 15  0.306 0.331 18.9
LPH8045-223MR 22  0.390 0.395 15.0

1. When ordering, please specify packaging code:
   LPH8045-223MR

Packaging: C = 7" machine-ready reel. EIA-481 embossed plastic tape (250 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer ($25 charge).
   D = 13" machine-ready reel. EIA-481 embossed plastic tape. Factory order only, not stocked (1000 parts per full reel).
   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 C.

2. Inductance is for each winding, measured at 100 kHz, 0.1 Vrms, 0 Adc.
3. DCR is for each winding.
4. DC current at 25°C that causes the specified inductance drop from its value without current.
5. Current that causes the specified temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.

- Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.005 in / 0.13 mm.
- For optional tin-lead and tin-silver-copper terminations, dimensions are for the mounted part. Dimensions before mounting can be an additional 0.005 inch / 0.13 mm.

Recommended Land Pattern

Ims (A)6

<table>
<thead>
<tr>
<th>10% drop</th>
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<th>30% drop</th>
<th>20°C rise</th>
<th>40°C rise</th>
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<tbody>
<tr>
<td>3.30</td>
<td>3.72</td>
<td>3.90</td>
<td>0.95</td>
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<td>3.00</td>
<td>3.40</td>
<td>3.65</td>
<td>0.92</td>
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<td>3.35</td>
<td>0.90</td>
<td>1.21</td>
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<td>2.30</td>
<td>2.65</td>
<td>2.90</td>
<td>0.80</td>
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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
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L vs Current

L vs Frequency