

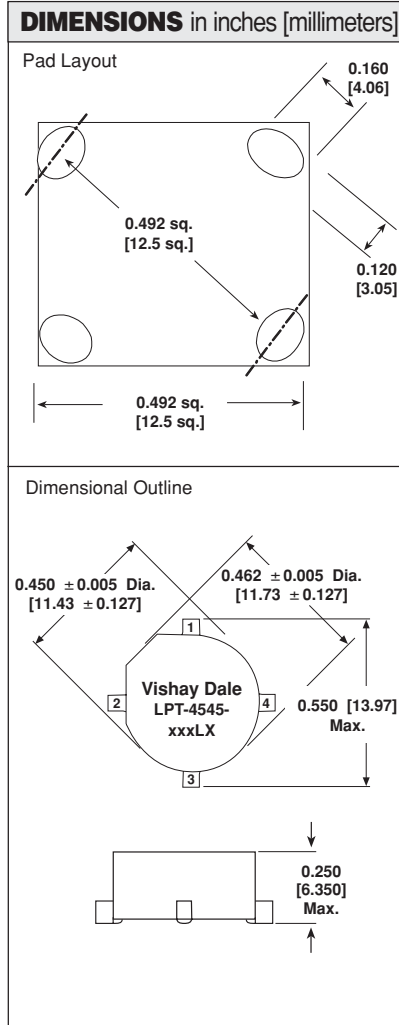
Vishay Dale

Inductors/Transformers, Customizable, Surface Mount Torodial, Kool-Mu[®], Powdered Iron and MPP Cores



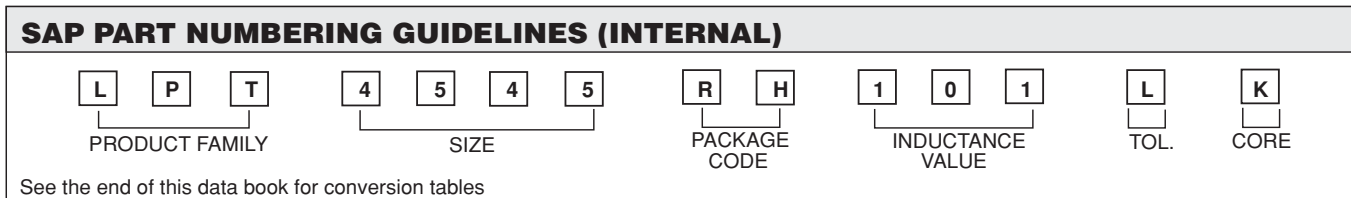
FEATURES

- Torodial design for minimal EMI radiation in DC to DC converter applications.
- Designed to support the growing need for efficient DC to DC converters in battery operated equipment.
- Two separate windings provide versatility by ability to connect windings in series or parallel.
- Supplied on tape and reel and is designed to be pick and place compatible.
- Custom versions and turns ratios available. Contact the factory with your specifications.



| STANDARD ELECTRICAL SPECIFICATIONS [In Parallel] | | | | | |
|--|-------------------------|---|--------------------------------|--|-----------------|
| MODEL LA=KOOL-MU [®] CORE | STANDARD IND. VALUES | ACTUAL IND. - μ H (L _{OC}) \pm 15% | RATED IDC \uparrow (40°C) | IND. @ IDC (L _{BIAS}) [30%] | DCR Ω |
| LPT-4545-1R0LA | 1.0 | 0.832 | 6.90 | 0.51 @ 7.62 | 0.003 |
| LPT-4545-1R5LA | 1.5 | 1.30 | 6.45 | 0.80 @ 6.10 | 0.004 |
| LPT-4545-2R5LA | 2.5 | 2.55 | 5.75 | 1.57 @ 4.35 | 0.006 |
| LPT-4545-3R3LA | 3.3 | 3.33 | 5.50 | 2.05 @ 3.81 | 0.007 |
| LPT-4545-5R0LA | 5.0 | 5.20 | 4.45 | 3.20 @ 3.05 | 0.011 |
| LPT-4545-100LA | 10 | 10.2 | 3.45 | 6.28 @ 2.18 | 0.019 |
| LPT-4545-150LA | 15 | 15.0 | 2.79 | 9.26 @ 1.79 | 0.029 |
| LPT-4545-200LA | 20 | 20.8 | 2.61 | 12.4 @ 1.53 | 0.038 |
| LPT-4545-250LA | 25 | 25.2 | 2.25 | 15.5 @ 1.39 | 0.048 |
| LPT-4545-330LA | 33 | 32.5 | 1.85 | 20.0 @ 1.22 | 0.068 |
| LPT-4545-500LA | 50 | 50.0 | 1.50 | 30.8 @ 0.98 | 0.107 |
| LPT-4545-101LA | 100 | 101 | 1.15 | 62.0 @ 0.69 | 0.195 |
| LPT-4545-151LA | 150 | 152 | 0.92 | 93.4 @ 0.56 | 0.302 |
| LPT-4545-251LA | 250 | 248 | 0.73 | 153.0 @ 0.44 | 0.491 |
| LPT-4545-301LA | 300 | 300 | 0.63 | 179.0 @ 0.40 | 0.670 |
| LPT-4545-331LA | 330 | 333 | 0.60 | 205.0 @ 0.38 | 0.706 |
| LB=POWDER IRON | | | | | |
| LPT-4545-1R0LB | 1.0 | 0.838 | 6.61 | 0.53 @ 7.09 | 0.004 |
| LPT-4545-1R5LB | 1.5 | 1.21 | 6.08 | 0.76 @ 5.91 | 0.005 |
| LPT-4545-2R5LB | 2.5 | 2.71 | 5.01 | 1.71 @ 3.94 | 0.009 |
| LPT-4545-3R3LB | 3.3 | 3.35 | 4.22 | 2.11 @ 3.54 | 0.012 |
| LPT-4545-5R0LB | 5.0 | 5.66 | 3.32 | 3.57 @ 2.73 | 0.019 |
| LPT-4545-100LB | 10 | 10.9 | 2.52 | 6.84 @ 1.97 | 0.034 |
| LPT-4545-150LB | 15 | 14.8 | 2.10 | 9.31 @ 1.69 | 0.049 |
| LPT-4545-250LB | 25 | 26.3 | 1.61 | 16.5 @ 1.27 | 0.084 |
| LPT-4545-330LB | 33 | 34.3 | 1.34 | 21.6 @ 1.11 | 0.119 |
| LPT-4545-500LB | 50 | 51.0 | 1.09 | 32.1 @ 0.91 | 0.180 |
| LPT-4545-101LB | 100 | 105 | 0.81 | 66.2 @ 0.63 | 0.342 |
| LPT-4545-151LB | 150 | 150 | 0.66 | 94.7 @ 0.53 | 0.509 |
| LPT-4545-251LB | 250 | 248 | 0.52 | 156.0 @ 0.41 | 0.831 |
| LPT-4545-331LB | 330 | 335 | 0.43 | 211.0 @ 0.35 | 1.194 |
| LC=MPP | | | | | |
| LPT-4545-1R0LC | 1.0 | 0.838 | 7.54 | 0.54 @ 11.11 | 0.004 |
| LPT-4545-1R5LC | 1.5 | 1.30 | 6.82 | 0.84 @ 8.89 | 0.004 |
| LPT-4545-2R5LC | 2.5 | 2.55 | 5.84 | 1.64 @ 6.35 | 0.007 |
| LPT-4545-3R3LC | 3.3 | 3.33 | 5.49 | 2.14 @ 5.56 | 0.008 |
| LPT-4545-5R0LC | 5.0 | 5.20 | 4.37 | 3.35 @ 4.45 | 0.012 |
| LPT-4545-100LC | 10 | 10.2 | 3.32 | 6.56 @ 3.18 | 0.022 |
| LPT-4545-150LC | 15 | 15.0 | 2.69 | 9.68 @ 2.61 | 0.033 |
| LPT-4545-250LC | 25 | 25.2 | 2.12 | 16.2 @ 2.02 | 0.054 |
| LPT-4545-330LC | 33 | 32.5 | 1.76 | 20.9 @ 1.78 | 0.076 |
| LPT-4545-500LC | 50 | 50.0 | 1.41 | 32.2 @ 1.43 | 0.119 |
| LPT-4545-101LC | 100 | 101 | 1.07 | 64.8 @ 1.01 | 0.219 |
| LPT-4545-151LC | 150 | 152 | 0.86 | 97.7 @ 0.82 | 0.340 |
| LPT-4545-251LC | 250 | 248 | 0.67 | 159.0 @ 0.64 | 0.551 |
| LPT-4545-331LC | 330 | 333 | 0.56 | 214.0 @ 0.56 | 0.788 |

| DESCRIPTION | | | | |
|-------------|------|-----------------------------|----------------------|---------------------------|
| LPT | 4545 | 100 | \pm 15% | LA/LB/LC |
| MODEL | SIZE | INDUCTANCE VALUE (μ H) | INDUCTANCE TOLERANCE | CORE/HEIGHT |
| | | | | LA = KOOL-MU [®] |
| | | | | LB = POWDER IRON |
| | | | | LC = MPP |



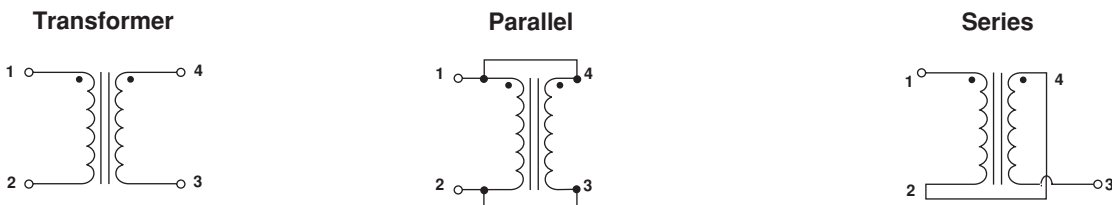


LPT-4545-xxxLA, LB, LC

Inductors/Transformers, Customizable, Surface Mount
Torodial, Kool-Mu[®], Powdered Iron and MPP Cores

Vishay Dale

SCHEMATICS - CONNECTION DIAGRAMS

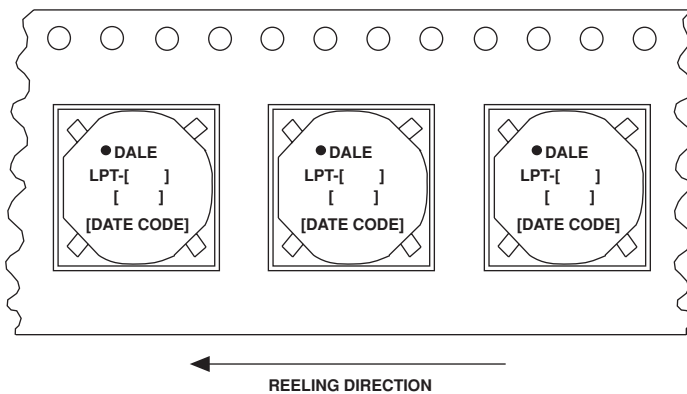


PART MARKING

- Vishay Dale
- Model number
- Pin 1 identification

PACKAGING in inches [millimeters]

Pocket Tape Orientation



| | |
|----------------------------|-----------------|
| Carrier Tape Width | 0.945 [24.0] |
| Pitch | 0.630 [16.0] |
| Parts per 13" [330.2] Reel | 600 |

All embossed carrier tape packaging will be in compliance with the latest revision of EIA-481.



Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.