

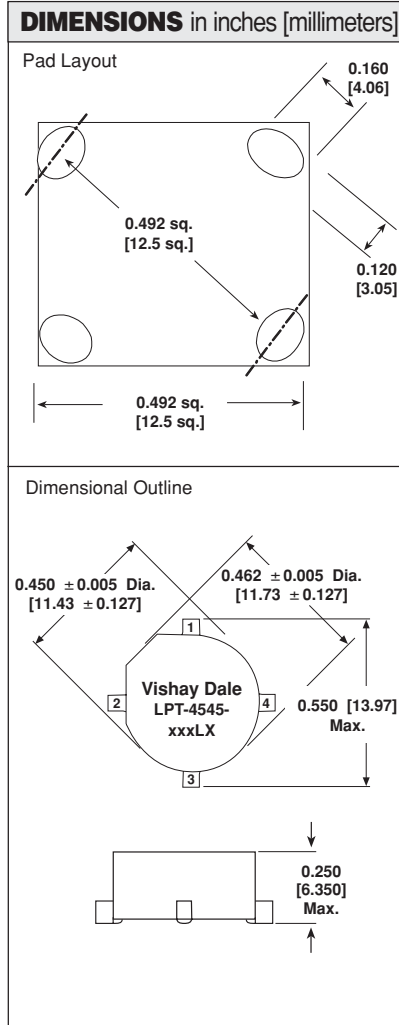
Vishay Dale

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



FEATURES

- Toroidal 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. - μH (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 (μH) | INDUCTANCE TOLERANCE | CORE/HEIGHT LA = KOOL-MU [®] LB = POWDER IRON LC = MPP |

| SAP PART NUMBERING GUIDELINES (INTERNAL) | | | | | | | | | | | | | |
|---|---|---|------|---|---|--------------|---|------------------|---|---|------|------|---|
| L | P | T | 4 | 5 | 4 | 5 | R | H | 1 | 0 | 1 | L | K |
| PRODUCT FAMILY | | | SIZE | | | PACKAGE CODE | | INDUCTANCE VALUE | | | TOL. | CORE | |
| See the end of this data book for conversion tables | | | | | | | | | | | | | |



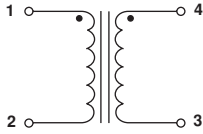
LPT-4545-xxxLA, LB, LC

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

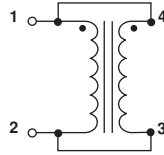
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SCHEMATICS - CONNECTION DIAGRAMS

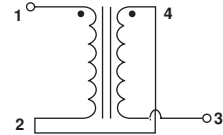
Transformer



Parallel



Series

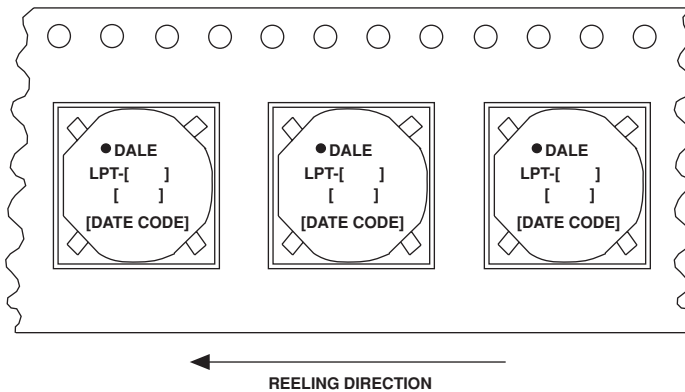


PART MARKING

- 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

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