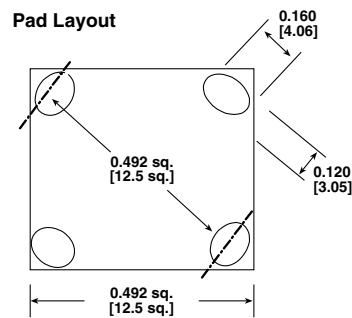
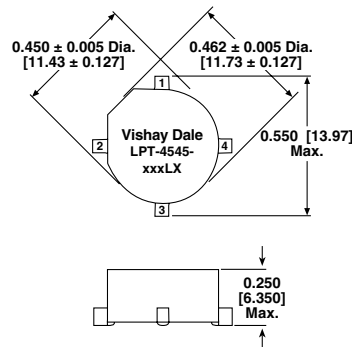


## Inductors/Transformers, Customizable, Surface Mount Torodial, Kool Mu<sup>®</sup>, Powdered Iron and MPP Cores


**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
- Operating Temperature Range: - 40 °C to + 125 °C
- 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

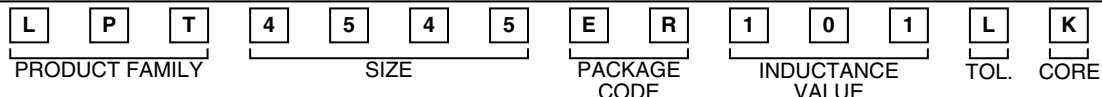

**RoHS  
COMPLIANT**
**DIMENSIONS** in inches [millimeters]

**Pad Layout**

**Dimensional Outline**

**STANDARD ELECTRICAL SPECIFICATIONS (In Parallel)**

MODEL KOOL MU <sup>®</sup> CORE (A)	STANDARD IND. VALUES	ACTUAL IND. - $\mu$ H ( $L_{OC}$ ) $\pm 15\%$	RATED IDC (40 °C)	IND. at IDC ( $L_{BIAS}$ ) [30 %]	DCR $\Omega$
LPT4545ER1R0LK	1.0	0.832	6.90	0.51 at 7.62	0.003
LPT4545ER1R5LK	1.5	1.30	6.45	0.80 at 6.10	0.004
LPT4545ER2R5LK	2.5	2.55	5.75	1.57 at 4.35	0.006
LPT4545ER3R3LK	3.3	3.33	5.50	2.05 at 3.81	0.007
LPT4545ER5R0LK	5.0	5.20	4.45	3.20 at 3.05	0.011
LPT4545ER100LK	10	10.2	3.45	6.28 at 2.18	0.019
LPT4545ER150LK	15	15.0	2.79	9.26 at 1.79	0.029
LPT4545ER200LK	20	20.8	2.61	12.4 at 1.53	0.038
LPT4545ER250LK	25	25.2	2.25	15.5 at 1.39	0.048
LPT4545ER330LK	33	32.5	1.85	20.0 at 1.22	0.068
LPT4545ER500LK	50	50.0	1.50	30.8 at 0.98	0.107
LPT4545ER101LK	100	101	1.15	62.0 at 0.69	0.195
LPT4545ER151LK	150	152	0.92	93.4 at 0.56	0.302
LPT4545ER251LK	250	248	0.73	153.0 at 0.44	0.491
LPT4545ER301LK	300	300	0.63	179.0 at 0.40	0.670
LPT4545ER331LK	330	333	0.60	205.0 at 0.38	0.706
<b>POWDER IRON (B)</b>					
LPT4545ER1R0LP	1.0	0.838	6.61	0.53 at 7.09	0.004
LPT4545ER1R5LP	1.5	1.21	6.08	0.76 at 5.91	0.005
LPT4545ER2R5LP	2.5	2.71	5.01	1.71 at 3.94	0.009
LPT4545ER3R3LP	3.3	3.35	4.22	2.11 at 3.54	0.012
LPT4545ER5R0LP	5.0	5.66	3.32	3.57 at 2.73	0.019
LPT4545ER100LP	10	10.9	2.52	6.84 at 1.97	0.034
LPT4545ER150LP	15	14.8	2.10	9.31 at 1.69	0.049
LPT4545ER250LP	25	26.3	1.61	16.5 at 1.27	0.084
LPT4545ER330LP	33	34.3	1.34	21.6 at 1.11	0.119
LPT4545ER500LP	50	51.0	1.09	32.1 at 0.91	0.180
LPT4545ER101LP	100	105	0.81	66.2 at 0.63	0.342
LPT4545ER151LP	150	150	0.66	94.7 at 0.53	0.509
LPT4545ER251LP	250	248	0.52	156.0 at 0.41	0.831
LPT4545ER331LP	330	335	0.43	211.0 at 0.35	1.194
<b>MPP (C)</b>					
LPT4545ER1R0LM	1.0	0.838	7.54	0.54 at 11.11	0.004
LPT4545ER1R5LM	1.5	1.30	6.82	0.84 at 8.89	0.004
LPT4545ER2R5LM	2.5	2.55	5.84	1.64 at 6.35	0.007
LPT4545ER3R3LM	3.3	3.33	5.49	2.14 at 5.56	0.008
LPT4545ER5R0LM	5.0	5.20	4.37	3.35 at 4.45	0.012
LPT4545ER100LM	10	10.2	3.32	6.56 at 3.18	0.022
LPT4545ER150LM	15	15.0	2.69	9.68 at 2.61	0.033
LPT4545ER250LM	25	25.2	2.12	16.2 at 2.02	0.054
LPT4545ER330LM	33	32.5	1.76	20.9 at 1.78	0.076
LPT4545ER500LM	50	50.0	1.41	32.2 at 1.43	0.119
LPT4545ER101LM	100	101	1.07	64.8 at 1.01	0.219
LPT4545ER151LM	150	152	0.86	97.7 at 0.82	0.340
LPT4545ER251LM	250	248	0.67	159.0 at 0.64	0.551
LPT4545ER331LM	330	333	0.56	214.0 at 0.56	0.788

**DESCRIPTION**

LPT MODEL	4545 SIZE	100 $\mu$ H INDUCTANCE VALUE	$\pm 15\%$ INDUCTANCE TOLERANCE	A CORE/HEIGHT K = KOOL MU <sup>®</sup> (A) P = POWER IRON (B) M = MPP (C)	ER PACKAGE CODE ER = Reel EB = Bulk	e2 JEDEC LEAD (Pb)-FREE STANDARD
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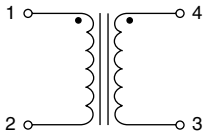
**GLOBAL PART NUMBER**


NOTE Series is also available with SnPb terminations by using package code RH for tape and reel (in place of ER) or SM for bulk (in place of EB).

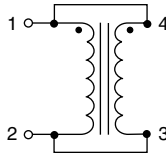
 \* Kool Mu<sup>®</sup> is a registered trademark of Spang & Company

**SCHEMATICS - CONNECTION DIAGRAMS**

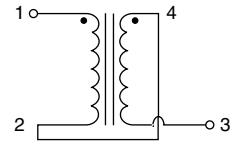
**Transformer**



**Parallel**



**Series**

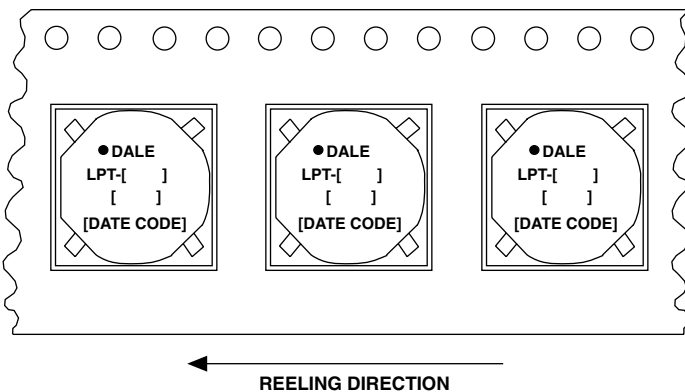


**PART MARKING**

- 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.



## Disclaimer

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