



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



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

### **FEATURES**

Toroidal design for minimal EMI radiation in DC/DC converter applications



- Designed to support the growing need for efficient DC/DC converters in battery operated equipment Two separate windings provide versatility by ability to
- connect windings in series or parallel
- Dielectric withstanding voltage: 500 V<sub>RMS</sub>, 60 Hz, 5 s Operating temperature range: -40 °C to +125 °C Supplied on tape and reel and is designed to be pick and place

- Custom versions and turns ratios available. Contact the factory with your specifications
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

STANDARD ELECTRICAL SPECIFICATIONS (in parallel)												
MODEL	STD. IND. (µH)	IND. TOL.	ACTUAL IND. (LOC) (μΗ)	DCR (Ω)	RATED I <sub>DC</sub> (40 °C) (A)	IND. AT I <sub>DC</sub> (L <sub>BIAS</sub> ) (30 %)						
LPT3535ER1R0LK	1.0	± 15 %	0.800	0.005	6.42	0.48 at 7.05						
LPT3535ER1R5LK LPT3535ER2R5LK	1.5 2.5	± 15 % ± 15 %	1.80 2.45	0.009 0.011	4.77 4.45	1.07 at 4.70 1.46 at 4.03						
LPT3535ER3R3LK	3.3	± 15 %	3.20	0.015	4.45 3.73	1.90 at 3.52						
LPT3535ER5R0LK	5.0	± 15 %	5.00	0.023	3.01	2.98 at 2.82						
LPT3535ER100LK	10	± 15 % ± 15 %	11.3	0.055	1 95	1.90 at 3.52 2.98 at 2.82 6.69 at 1.88 9.64 at 1.57						
LPT3535ER150LK	15 25	± 15 %	16.2	0.081	1.59 1.25	9.64 at 1.57						
LPT3535ER250LK	25	± 15 %	26.5	0.131	1.25	9.64 at 1.57 15.7 at 1.23 20.1 at 1.08						
LPT3535ER330LK	33	± 15 %	33.8 51.2	0.182	1.05	20.1 at 1.08 <b>∑</b>						
LPT3535ER500LK	50	± 15 %	51.2	0.280	0.84	30.5 at 0.88						
LPT3535ER101LK LPT3535ER151LK	100 150	± 15 % ± 15 %	101 151	0.514 0.775	0.63 0.57	60.2 at 0.63 90.0 at 0.51						
LPT3535ER151LK	250	± 15 %	252	1.279	0.40	150.0 at 0.40						
LPT3535ER331LK	330	± 15 %	328	1.837	0.40	195.0 at 0.35						
LPT3535ER1R0LP	1.0	± 15 %	0.882	0.004	5.10	0.56 at 4.29						
LPT3535ER1R5LP	1.5	± 15 %	1.57	0.005	4.48	0.99 at 3.21						
LPT3535ER2R5LP	2.5	+ 15 %	2.45	0.009	3.58	1.54 at 2.57 🙍						
LPT3535ER3R3LP	3.3	± 15 % ± 15 %	3.53 4.80	0.013	2.96 2.41	2.22 at 2.14						
LPT3535ER5R0LP	5.0	± 15 %	4.80	0.018	2.41	3.03 at 1.84 <b>5</b>						
LPT3535ER100LP	10	± 15 %	10.8	0.043	1.58	6.81 at 1.22						
LPT3535ER150LP	15	± 15 %	15.3	0.064	1.29	9.65 at 1.03						
LPT3535ER250LP	25 33	± 15 % ± 15 %	25.1 33.5	0.103	1.03	15.8 at 0.80						
LPT3535ER330LP	50	± 15 %	33.5 51.8	0.147 0.230	0.85 0.68	1.54 at 2.57 2.22 at 2.14 3.03 at 1.84 6.81 at 1.22 9.65 at 1.03 15.8 at 0.80 21.1 at 0.70 32.7 at 0.56 65.2 at 0.40 96.3 at 0.33 157.0 at 0.25						
LPT3535ER500LP LPT3535ER101LP	100	± 15 % ± 15 %	104	0.424	0.66	65.2 at 0.40						
LPT3535ER151LP	150	± 15 %	153	0.645	0.31	96.3 at 0.33						
LPT3535ER251LP	250	± 15 %	250	1.031	0.41 0.33	157.0 at 0.25						
LPT3535ER331LP	330	+ 15 %	330	1.463	0.27	208.0 at 0.22						
LPT3535ER1R0LM	1.0	± 15 % ± 15 %	0.800	0.005	6.45	0.52 at 7.05						
LPT3535ER1R5LM	1.5	± 15 %	1.80	0.009	4.80	1.16 at 4.70						
LPT3535ER2R5LM	2.5	± 15 %	2.45	0.011	4.46 3.73	1.58 at 4.03						
LPT3535ER3R3LM	3.3	± 15 %	3.20	0.015	3.73	2.06 at 3.52						
LPT3535ER5R0LM	5.0	± 15 %	5.00	0.023	3.02	3.22 at 2.82						
LPT3535ER100LM	10	± 15 %	11.3	0.055	1.94	7.25 at 1.88						
LPT3535ER150LM LPT3535ER250LM	15 25	± 15 % ± 15 %	16.2 26.5	0.081 0.131	1.59 1.26	10.43 at 1.57 17.0 at 1.23						
LPT3535ER230LM	33	± 15 % ± 15 %	33.8	0.131	1.05	17.0 at 1.23 21.8 at 1.08						
LPT3535ER530LM	50	± 15 %	53.6 51.2	0.182	0.84	33.0 at 0.88						
LPT3535ER101LM	100	± 15 %	101	0.514	0.64	97.4 at 0.51						
LPT3535ER151LM	150	± 15 %	151	0.775	0.52	65.2 at 0.63						
LPT3535ER251LM	250	± 15 % ± 15 %	252	1.279	0.40	162.0 at 0.51						
LPT3535ER331LM	330	± 15 %	328	1.837	0.33	211.0 at 0.35						

DESCRIPTION												
LPT MODEL	<b>3535</b> SIZE	<b>100 μΗ</b> INDUCTANCE VALUE	± 15 % INDUCTANCE TOLERANCE	CORE / HEIGH  K = KOOL MU® (A)  P = POWDERED IRO  M = MPP (C)	ER = r	CODE JE eel	<b>e2</b> EDEC® LEAD STAND	2 O (Pb)-FREE OARD				
GLOBAL PART NUMBER												
L	Р	T 3	5 3	5 E	R 1 0	1	L	K				

Note

PRODUCT FAMILY

Series is also available with SnPb terminations by using package code RH for tape and reel (in place of ER)

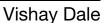
SIZE

PACKAGE CODE

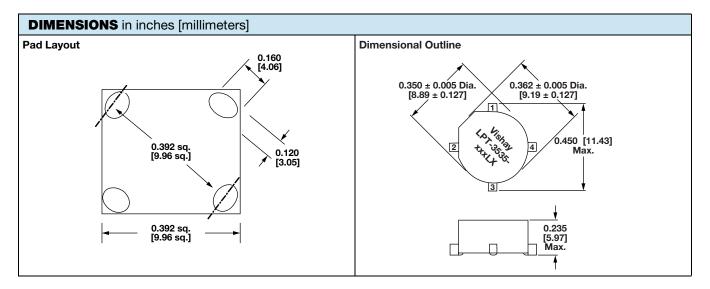
INDUCTANCE VALUE

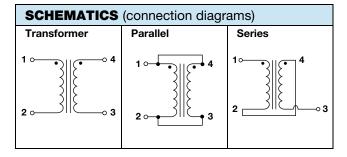
TOL

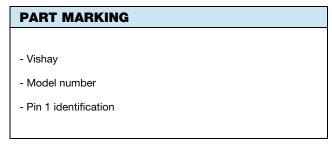
CORE

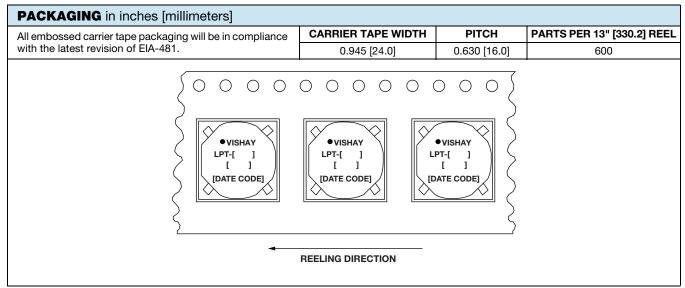














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