# LPT-3535



Vishay Dale

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



#### Note

• 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 RoHS
- COMPLIANT 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 HALOGEN
- compatible 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>

SIANDARD ELEC	FIRICAL SPECIFIC	GATIONS (	in parallel)				
MODEL	STD. IND. (µH)	IND. TOL.	ACTUAL IND. (LOC) (µH)	DCR (Ω)	RATED I <sub>DC</sub> (40 °C) (A)	IND. AT I <sub>DC</sub> (L <sub>BIAS</sub> ) (30 %)	
LPT3535ER1R0LK LPT3535ER1R5LK LPT3535ER2R5LK LPT3535ER3R3LK LPT3535ER5R0LK LPT3535ER100LK LPT3535ER150LK LPT3535ER250LK LPT3535ER250LK LPT3535ER250LK LPT3535ER101LK LPT3535ER101LK LPT3535ER331LK LPT3535ER331LK LPT3535ER331LK LPT3535ER1R0LP LPT3535ER3R3LP LPT3535ER3R3LP LPT3535ER150LP LPT3535ER150LP LPT3535ER150LP LPT3535ER150LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER101LP LPT3535ER130LP LPT3535ER130LP LPT3535ER130LP LPT3535ER130LP LPT3535ER130LP LPT3535ER130LP LPT3535ER130LP LPT3535ER130LP LPT3535ER151LP LPT3535ER130LP LPT3535ER151LP LPT3535ER151LP LPT3535ER151LP LPT3535ER151LP LPT3535ER15LM		\$\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%	(µH) 0.800 1.80 2.45 3.20 5.00 11.3 16.2 26.5 33.8 51.2 101 151 252 328 0.882 1.57 2.45 3.53 4.80 10.8 15.3 25.1 33.5 51.8 104 153 250 330 0.800 1.80		(40 °C) (A) 6.42 4.77 4.45 3.73 3.01 1.95 1.59 1.25 1.05 0.84 0.63 0.57 0.40 0.33 5.10 4.48 3.58 2.96 2.41 1.58 1.29 1.03 0.85 0.68 0.51 0.41 0.33 0.27 6.45 4.80 4.46	(30 %) 0.48 at 7.05 1.07 at 4.70 1.46 at 4.03 1.90 at 3.52 2.98 at 2.82 6.69 at 1.88 9.64 at 1.57 15.7 at 1.23 20.1 at 1.08 30.5 at 0.88 60.2 at 0.63 90.0 at 0.51 150.0 at 0.40 195.0 at 0.35 0.56 at 4.29 0.99 at 3.21 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 0.32 157.0 at 0.25 208.0 at 0.22 0.52 at 7.05 1.16 at 4.70	POWDERED IRON (B) KOOL MU <sup>®</sup> CORE (A)
LPT3535ER2R5LM LPT3535ER3R3LM LPT3535ER100LM LPT3535ER100LM LPT3535ER150LM LPT3535ER30LM LPT3535ER30LM LPT3535ER500LM LPT3535ER101LM LPT3535ER151LM LPT3535ER151LM LPT3535ER251LM LPT3535ER251LM	2.3 3.3 5.0 10 15 25 33 50 100 150 250 330	$1 \pm 2 \pm $	2.45 3.20 5.00 11.3 16.2 26.5 33.8 51.2 101 151 252 328	0.015 0.023 0.055 0.081 0.131 0.182 0.280 0.514 0.775 1.279 1.837	4.40 3.73 3.02 1.94 1.26 1.05 0.84 0.52 0.40 0.33	1.58 at 4.03 2.06 at 3.52 3.22 at 2.82 7.25 at 1.88 10.43 at 1.57 17.0 at 1.23 21.8 at 1.08 33.0 at 0.88 97.4 at 0.51 65.2 at 0.63 162.0 at 0.51 211.0 at 0.35	MPP (C)
DESCRIPTION							
MODEL SIZE INDU	00 μH ± 15 % JCTANCE INDUCTAN ALUE TOLERAN	CE K = KC	<b>A</b> Core/Height Ool MU <sup>®</sup> (A) Wdered Iron (B) PP (C)	ef Packagi Er =	E CODE JED	<b>e2</b> EC <sup>®</sup> LEAD (Pb)-FRE STANDARD	ΞE
GLOBAL PART N	UMBER						
LP		3 5	ER	1 0		LK	
PRODUCT FAMIL	Y SIZE	<u> </u>	PACKAGE CODE	NDUCTAN	CE VALUE	TOL. CORE	
Note Series is also available with SnPb terminations by using package code RH for tape and reel (in place of ER)							

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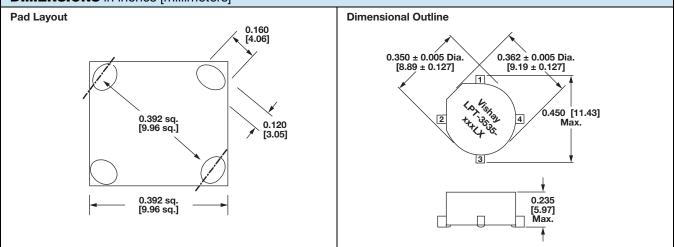
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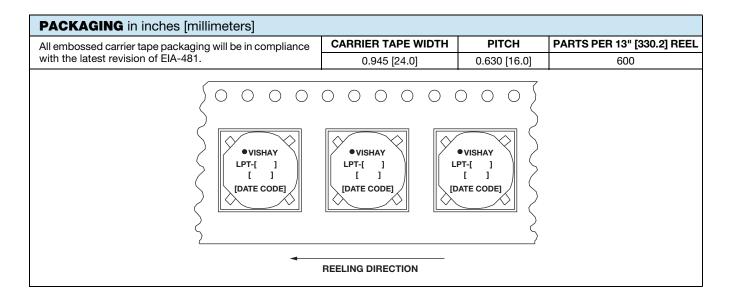
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### **DIMENSIONS** in inches [millimeters]



SCHEMATICS (connection diagrams)						
Transformer	Parallel	Series				
	1 • • • • • • • • • • • • • • • • • • •					
	2 ~ ~ 3					

PART MARKING
- Vishay
- Model number
- Pin 1 identification





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