

# 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 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>

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 LPT3535ER1R5LK LPT3535ER2R5LK LPT3535ER3R3LK LPT3535ER5R0LK	1.0 1.5 2.5 3.3 5.0	± 15 % ± 15 % ± 15 % ± 15 % + 15 %	0.800 1.80 2.45 3.20 5.00	0.005 0.009 0.011 0.015 0.023	6.42 4.77 4.45 3.73 3.01	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 1.87				
LPT3535ER100LK LPT3535ER150LK LPT3535ER250LK LPT3535ER330LK LPT3535ER500LK LPT3535ER500LK	10 15 25 33 50	± 15 % ± 15 % ± 15 % ± 15 % ± 15 % ± 15 %	11.3 16.2 26.5 33.8 51.2	0.055 0.081 0.131 0.182 0.280	3.01 1.95 1.59 1.25 1.05 0.84	15.7 at 1.23 20.1 at 1.08				
LPT3535ER101LK LPT3535ER101LK LPT3535ER251LK LPT3535ER331LK LPT3535ER30LP	100 150 250 330	± 15 % ± 15 % ± 15 % ± 15 % ± 15 %	101 151 252 328 0.882	0.514 0.775 1.279 1.837 0.004	0.63 0.57 0.40 0.33 5.10	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				
LPT3535ER1R5LP LPT3535ER2R5LP LPT3535ER3R3LP LPT3535ER5R0LP LPT3535ER100LP	1.5 2.5 3.3 5.0 10	± 15 % ± 15 % ± 15 % ± 15 % ± 15 %	1.57 2.45 3.53 4.80 10.8	0.005 0.009 0.013 0.018 0.043	4.48 3.58 2.96 2.41 1.58	0.99 at 3.21				
LPT3535ER150LP LPT3535ER250LP LPT3535ER330LP LPT3535ER500LP LPT3535ER101LP LPT3535ER151LP	15 25 33 50 100 150	± 15 % ± 15 % ± 15 % ± 15 % ± 15 %	15.3 25.1 33.5 51.8 104 153	0.064 0.103 0.147 0.230 0.424 0.645	1.29 1.03 0.85 0.68 0.51 0.41	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				
LPT3535ER251LP LPT3535ER331LP LPT3535ER1R0LM LPT3535ER1R5LM	250 330 1.0 1.5	± 15 % ± 15 % ± 15 % + 15 %	250 330 0.800 1.80	1.031 1.463 0.005 0.009	0.33 0.27 6.45 4.80	208.0 at 0.22 0.52 at 7.05 1.16 at 4.70				
LPT3535ER2R5LM LPT3535ER3R3LM LPT3535ER5R0LM LPT3535ER100LM LPT3535ER150LM LPT3535ER250LM	2.5 3.3 5.0 10 15 25	± 15 % ± 15 % ± 15 % ± 15 % ± 15 % ± 15 %	2.45 3.20 5.00 11.3 16.2 26.5	0.011 0.015 0.023 0.055 0.081 0.131	4.46 3.73 3.02 1.94 1.59 1.26	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				
LPT3535ER330LM LPT3535ER500LM LPT3535ER101LM LPT3535ER151LM LPT3535ER251LM LPT3535ER331LM	33 50 100 150 250 330	± 15 % ± 15 % ± 15 % ± 15 % ± 15 % ± 15 %	33.8 51.2 101 151 252 328	0.182 0.280 0.514 0.775 1.279 1.837	1.05 0.84 0.64 0.52 0.40 0.33	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				

Li 10000	LITOUTE	VI C	<u> </u>	10 /0 020	1.007	Z 11.0 at 0.00			
DESCRIPTION									
LPT MODEL	<b>3535</b> SIZE	<b>100 μΗ</b> INDUCTANCE VALUE	± <b>15</b> % INDUCTANCE TOLERANCE	CORE/HEIGHT  K = KOOL MU® (A) P = POWDERED IRON (B) M = MPP (C)	<b>ER</b> PACKAGE CODE ER = reel	<b>e2</b> JEDEC® LEAD (Pb)-FREE STANDARD			
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

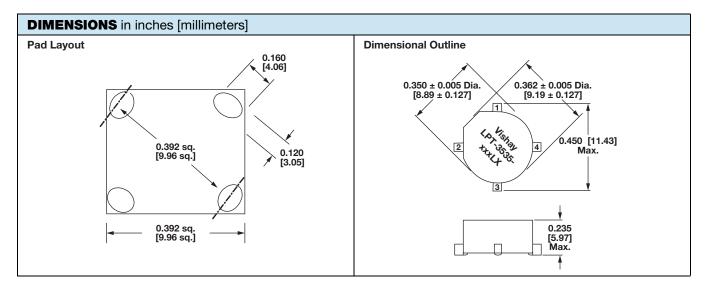
INDUCTANCE VALUE

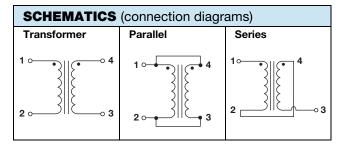
TOL

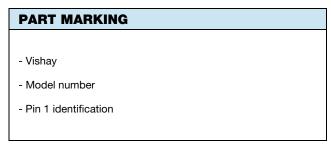
CORE

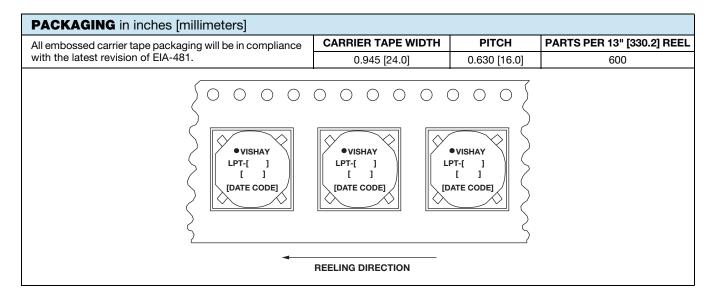














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