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

Note

- Kool Mu® 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_{RMS}, 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 www.vishay.com/doc?99912

Pb-free
RoHS COMPLIANT
HALOGEN FREE

STANDARD ELECTRICAL SPECIFICATIONS (in parallel)

MODEL	STD. IND. (µH)	IND. TOL.	ACTUAL IND. (LOC) (µH)	DCR (Ω)	RATED I_{DC} (40 °C) (A)	IND. AT I_{DC} (L_{BIAS}) (30 %)	
LPT3535ER1R0LK	1.0	± 15 %	0.800	0.005	6.42	0.48 at 7.05	KOOL MU® CORE (A)
LPT3535ER1R5LK	1.5	± 15 %	1.80	0.009	4.77	1.07 at 4.70	
LPT3535ER2R5LK	2.5	± 15 %	2.45	0.011	4.45	1.46 at 4.03	
LPT3535ER3R3LK	3.3	± 15 %	3.20	0.015	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 %	11.3	0.055	1.95	6.69 at 1.88	
LPT3535ER150LK	15	± 15 %	16.2	0.081	1.59	9.64 at 1.57	
LPT3535ER250LK	25	± 15 %	26.5	0.131	1.25	15.7 at 1.23	
LPT3535ER330LK	33	± 15 %	33.8	0.182	1.05	20.1 at 1.08	
LPT3535ER500LK	50	± 15 %	51.2	0.280	0.84	30.5 at 0.88	
LPT3535ER101LK	100	± 15 %	101	0.514	0.63	60.2 at 0.63	
LPT3535ER151LK	150	± 15 %	151	0.775	0.57	90.0 at 0.51	
LPT3535ER251LK	250	± 15 %	252	1.279	0.40	150.0 at 0.40	
LPT3535ER331LK	330	± 15 %	328	1.837	0.33	195.0 at 0.35	
LPT3535ER1R0LP	1.0	± 15 %	0.882	0.004	5.10	0.56 at 4.29	POWDERED IRON (B)
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 %	3.53	0.013	2.96	2.22 at 2.14	
LPT3535ER5R0LP	5.0	± 15 %	4.80	0.018	2.41	3.03 at 1.84	
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	± 15 %	25.1	0.103	1.03	15.8 at 0.80	
LPT3535ER330LP	33	± 15 %	33.5	0.147	0.85	21.1 at 0.70	
LPT3535ER500LP	50	± 15 %	51.8	0.230	0.68	32.7 at 0.56	
LPT3535ER101LP	100	± 15 %	104	0.424	0.51	65.2 at 0.40	
LPT3535ER151LP	150	± 15 %	153	0.645	0.41	96.3 at 0.33	
LPT3535ER251LP	250	± 15 %	250	1.031	0.33	157.0 at 0.25	
LPT3535ER331LP	330	± 15 %	330	1.463	0.27	208.0 at 0.22	
LPT3535ER1R0LM	1.0	± 15 %	0.800	0.005	6.45	0.52 at 7.05	MPP (C)
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	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	15	± 15 %	16.2	0.081	1.59	10.43 at 1.57	
LPT3535ER250LM	25	± 15 %	26.5	0.131	1.26	17.0 at 1.23	
LPT3535ER330LM	33	± 15 %	33.8	0.182	1.05	21.8 at 1.08	
LPT3535ER500LM	50	± 15 %	51.2	0.280	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 %	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	3535	100 µH	± 15 %	A	ER	e2
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE/HEIGHT K = KOOL MU® (A) P = POWDERED IRON (B) M = MPP (C)	PACKAGE CODE ER = reel	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

L	P	T	3	5	3	5	E	R	1	0	1	L	K
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.	CORE

Note

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

For technical questions, contact: magnetics@vishay.com
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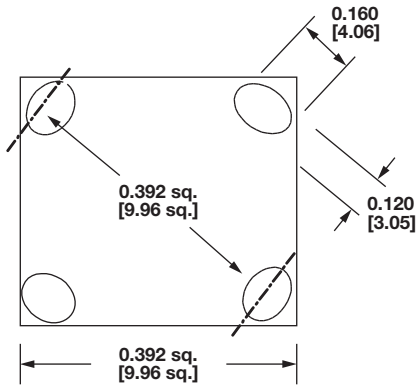
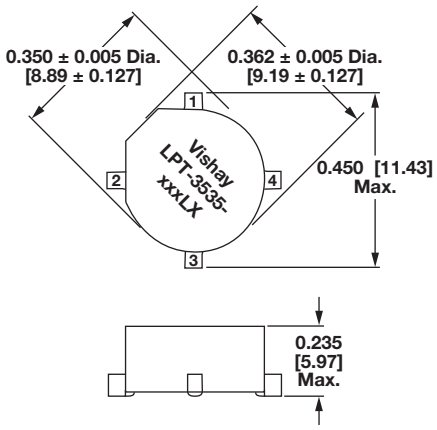
DIMENSIONS in inches [millimeters]

Pad Layout

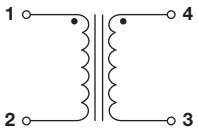


Dimensional Outline

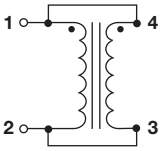


SCHEMATICS (connection diagrams)

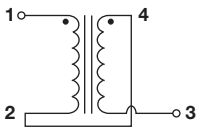
Transformer



Parallel



Series



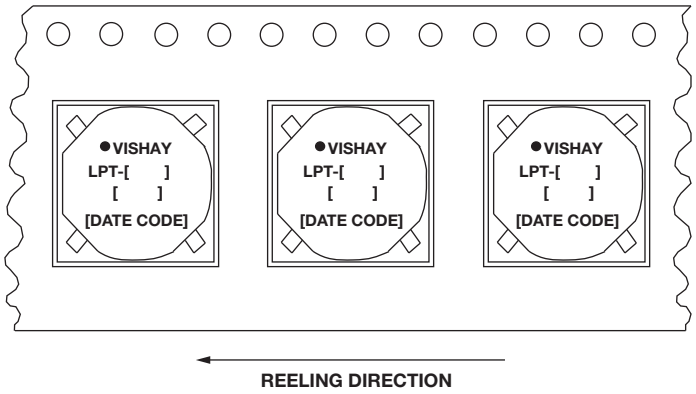
PART MARKING

- Vishay
- Model number
- Pin 1 identification

PACKAGING in inches [millimeters]

All embossed carrier tape packaging will be in compliance with the latest revision of EIA-481.

CARRIER TAPE WIDTH	PITCH	PARTS PER 13" [330.2] REEL
0.945 [24.0]	0.630 [16.0]	600



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