



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



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



RoHS COMPLIANT
HALOGEN FREE

Note

- Kool Mu[®] is a registered trademark of Spang & Company

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

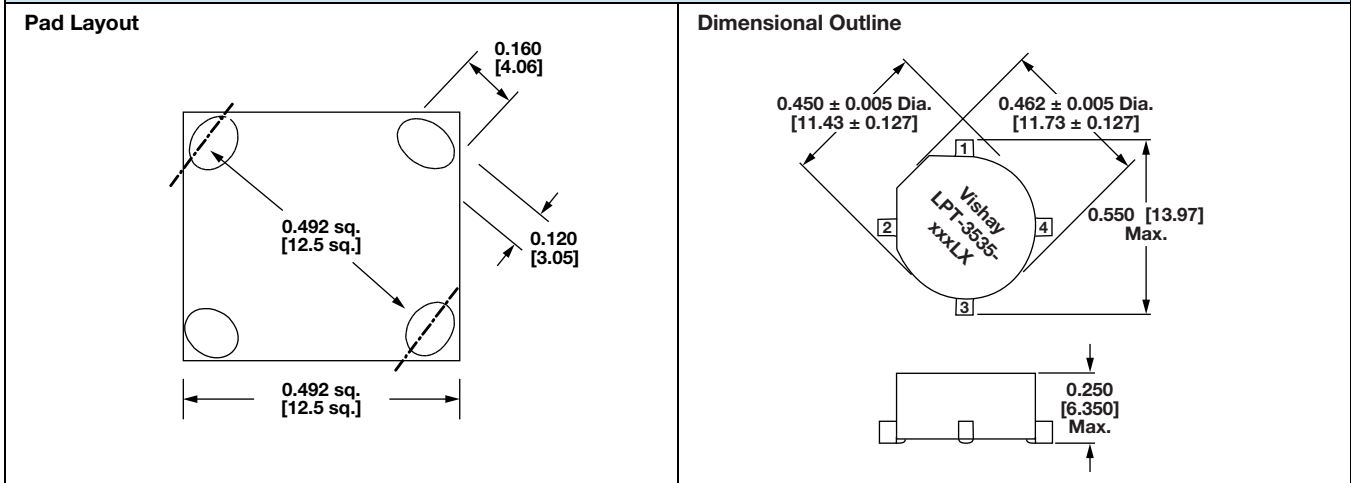
DESCRIPTION						
LPT	4545	100 μH	± 15 %	A	ER	e2
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE/HEIGHT K = KOOL MU [®] (A) P = POWDERED IRON (B) M = MPP (C)	PACKAGE CODE ER = Reel EB = Bulk	JEDEC [®] LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER													
L	P	T	4	5	4	5	E	R	1	0	1	L	K
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	CORE	

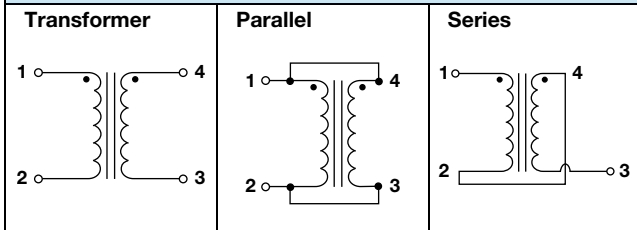
Note

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

DIMENSIONS in inches [millimeters]



SCHEMATICS (connection diagrams)

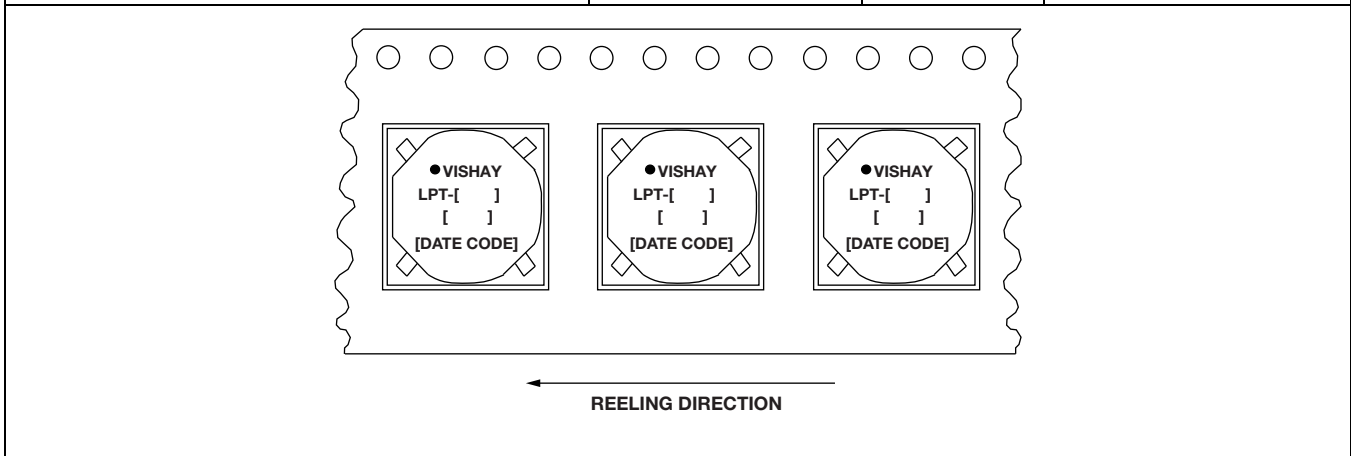


PART MARKING

- 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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