

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



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 <u>www.vishay.com/doc?99912</u>

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 LPT4545ER1R5LK LPT4545ER2R5LK LPT4545ER3R3LK LPT4545ER15R0LK LPT4545ER100LK LPT4545ER150LK LPT4545ER200LK LPT4545ER200LK LPT4545ER330LK LPT4545ER300LK LPT4545ER150LK LPT4545ER151LK LPT4545ER151LK LPT4545ER31LK LPT4545ER331LK LPT4545ER331LK LPT4545ER331LK	1.0 1.5 2.5 3.3 5.0 15 22 33 50 100 150 250 330 330	± 155% ± 155% ± 155% ± 1555% ± 1555% ± 1555% ± 1555% ± 1555% ± 1555% ± 1555%	0.832 1.30 2.55 3.33 5.20 10.2 15.0 20.8 25.2 32.5 50.0 101 152 248 300 333	0.003 0.004 0.006 0.007 0.011 0.019 0.029 0.038 0.048 0.107 0.195 0.302 0.491 0.670 0.706	6.90 6.45 5.75 5.50 4.45 3.45 2.79 2.61 2.25 1.85 1.50 1.15 0.92 0.73 0.60	0.51 at 7.62 0.80 at 6.10 1.57 at 4.35 2.05 at 3.81 3.20 at 3.05 6.28 at 2.18 9.26 at 1.79 12.4 at 1.53 15.5 at 1.39 20.0 at 1.22 30.8 at 0.98 62.0 at 0.69 93.4 at 0.56 153.0 at 0.44 179.0 at 0.44 179.0 at 0.38						
LPT4545ER1R0LP LPT4545ER1R5LP LPT4545ER2R5R1P LPT4545ER3R3LP LPT4545ER5R0LP LPT4545ER100LP LPT4545ER150LP LPT4545ER250LP LPT4545ER250LP LPT4545ER500LP LPT4545ER500LP LPT4545ER5101LP LPT4545ER5101LP LPT4545ER151LP LPT4545ER351LP LPT4545ER351LP LPT4545ER351LP	1.0 1.5 2.5 3.3 5.0 10 15 25 33 500 150 250 330	± 155% ± 155% ± ± 155%	0.838 1.21 2.71 3.35 5.66 10.9 14.8 26.3 34.3 51.0 105 150 248 335	0.004 0.005 0.009 0.012 0.019 0.034 0.049 0.084 0.119 0.180 0.342 0.509 0.831 1.194	6.61 6.08 5.01 4.22 3.32 2.52 2.10 1.61 1.34 1.09 0.81 0.66 0.52 0.43	0.53 at 7.09 0.76 at 5.91 1.71 at 3.94 2.11 at 3.54 3.57 at 2.73 6.84 at 1.97 9.31 at 1.69 16.5 at 1.27 21.6 at 1.11 32.1 at 0.91 66.2 at 0.63 94.7 at 0.53 156.0 at 0.41 211.0 at 0.35						
LPT4545ER1R0LM LPT4545ER1R5LM LPT4545ER2R5LM LPT4545ER3R3LM LPT4545ER3R3LM LPT4545ER100LM LPT4545ER100LM LPT4545ER250LM LPT4545ER250LM LPT4545ER300LM LPT4545ER500LM LPT4545ER510LM LPT4545ER510LM LPT4545ER510LM LPT4545ER51	1.0 1.5 2.5 3.3 5.0 10 25 33 50 100 150 250 330	± 155% ± 155%	0.838 1.30 2.55 3.33 5.20 10.2 15.0 25.2 32.5 50.0 101 152 248 333	0.004 0.004 0.007 0.008 0.012 0.022 0.033 0.054 0.076 0.119 0.219 0.340 0.551 0.788	7.54 6.82 5.84 5.49 4.37 3.32 2.69 2.12 1.76 1.41 1.07 0.86 0.67 0.56	0.54 at 11.11 0.84 at 8.89 1.64 at 6.35 2.14 at 5.56 3.35 at 4.45 6.56 at 3.18 9.68 at 2.61 16.2 at 2.02 20.9 at 1.78 32.2 at 1.43 64.8 at 1.01 97.7 at 0.82 159.0 at 0.64 214.0 at 0.56						

LI 1-10-10	LI 100 I LI	VI .	000	± 10 /0	000	0.700	0.00	217.0	ut 0.00			
DESCRIPTION												
LPT MODEL	4545 SIZE	100 μΗ INDUCTANCE VALUE	± 15 % INDUCTANCI TOLERANCE	K = K0 P = P0	A CORE/HEIGHT OOL MU [®] (A) DWDERED IRON (B) IPP (C)	ER PACKAGE ER = r		e2 JEDEC [®] LEAI STAND	O (Pb)-FREE			
GLOBAL PART NUMBER												
L	Р	Т [4 5 4	5	E R	1 0	1	L	K			

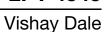
PRODUCT FAMILY

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

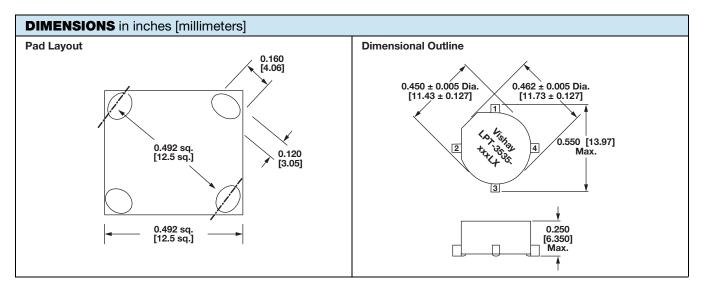
PACKAGE CODE

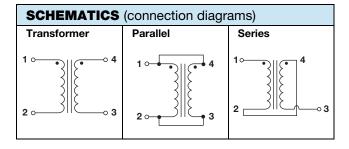
INDUCTANCE VALUE

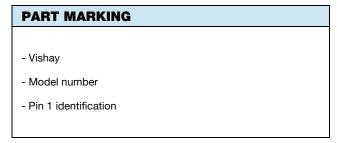
CORE

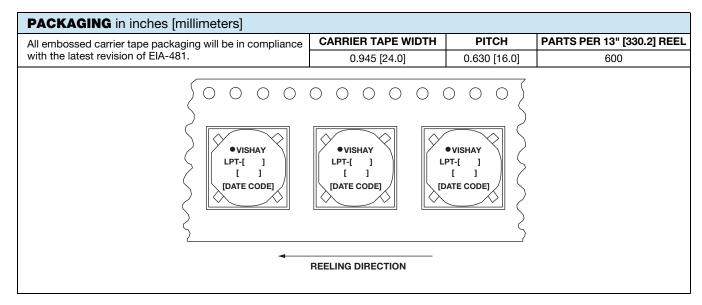














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Vishay

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LPT4545RH100LK LPT4545RH151LK LPT4545SM101LK LPT4545RH500LK LPT4545SM100LK

LPT4545SM101LP LPT4545SM500LK LPT4545RH301LK LPT4545SM3R3LM LPT4545SM151LK

LPT4545SM200LK LPT-4545-100LATR LPT-4545-150LA LPT-4545-330LATR LPT-4545-5R0LC LPT4545EB200LK

LPT4545ER250LK LPT4545ER330LK LPT4545ER150LK LPT4545ER5R0LM LPT4545ER100LK

LPT4545ER101LK LPT4545RH101LK