LPT-4545



Vishay Dale

COMPLIANT

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 RoHS
- 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>

SIANDARD ELEC	FIRICAL SPECIFIC	CATIONS (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 _{BIA:} (30 %)	s)
LPT4545ER1R0LK LPT4545ER2R5LK LPT4545ER3R3LK LPT4545ER3R3LK LPT4545ER3R0LK LPT4545ER100LK LPT4545ER100LK LPT4545ER200LK LPT4545ER250LK LPT4545ER300LK LPT4545ER300LK LPT4545ER300LK LPT4545ER301LK LPT4545ER101LK LPT4545ER301LK LPT4545ER301LK LPT4545ER301LK LPT4545ER301LK LPT4545ER301LK LPT4545ER301LK LPT4545ER300LP LPT4545ER3R3LP LPT4545ER3R3LP LPT4545ER300LM LPT4545ER300LM	$\begin{array}{c} 1.0\\ 1.5\\ 2.5\\ 3.3\\ 5.0\\ 10\\ 15\\ 20\\ 25\\ 33\\ 50\\ 100\\ 150\\ 250\\ 330\\ 1.0\\ 1.5\\ 2.5\\ 330\\ 1.0\\ 1.5\\ 2.5\\ 330\\ 1.0\\ 1.5\\ 2.5\\ 333\\ 5.0\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 10\\ 1.5\\ 2.5\\ 330\\ 100\\ 1.5\\ 10\\ 1.5\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10$	\$\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%\%	$\begin{array}{c} 0.832 \\ 1.30 \\ 2.55 \\ 3.33 \\ 5.20 \\ 10.2 \\ 15.0 \\ 20.8 \\ 25.2 \\ 32.5 \\ 50.0 \\ 101 \\ 152 \\ 248 \\ 300 \\ 333 \\ \hline 0.838 \\ 1.21 \\ 2.71 \\ 3.35 \\ 5.66 \\ 10.9 \\ 14.8 \\ 26.3 \\ 334 \\ \hline 335 \\ 5.66 \\ 10.9 \\ 14.8 \\ 26.3 \\ 34.3 \\ 51.0 \\ 105 \\ 150 \\ 248 \\ 335 \\ \hline 0.838 \\ \hline 1.30 \\ 2.55 \\ 3.33 \\ 5.20 \\ 10.2 \\ 15.2 \\ 32.5 \\ 50.0 \\ 101 \\ 152 \\ 248 \\ 333 \\ \hline \end{array}$	0.003 0.004 0.006 0.007 0.011 0.019 0.029 0.038 0.048 0.068 0.107 0.195 0.302 0.491 0.670 0.706 0.004 0.005 0.009 0.012 0.034 0.049 0.034 0.049 0.034 0.049 0.034 0.049 0.342 0.340 0.341 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.004 0.005	$\begin{array}{c} 6.90\\ 6.90\\ 6.45\\ 5.75\\ 5.50\\ 4.45\\ 3.45\\ 2.79\\ 2.61\\ 2.25\\ 1.85\\ 1.50\\ 0.92\\ 0.73\\ 0.63\\ 0.60\\ \hline \\ 6.61\\ 6.08\\ 5.01\\ 4.22\\ 3.32\\ 2.52\\ 2.10\\ 1.61\\ 1.34\\ 1.09\\ 0.81\\ 0.66\\ 0.52\\ 0.43\\ \hline \\ 7.54\\ 6.82\\ 5.84\\ 5.49\\ 4.37\\ 3.32\\ 2.69\\ 2.12\\ 1.76\\ 1.41\\ 1.07\\ 0.86\\ 0.67\\ 0.56\\ \hline \end{array}$	$\begin{array}{c} 0.51 \mbox{ at } 7.62 \\ 0.80 \mbox{ at } 6.10 \\ 1.57 \mbox{ at } 4.35 \\ 2.05 \mbox{ at } 3.81 \\ 3.20 \mbox{ at } 3.05 \\ 6.28 \mbox{ at } 2.18 \\ 9.26 \mbox{ at } 1.79 \\ 12.4 \mbox{ at } 2.18 \\ 9.26 \mbox{ at } 1.79 \\ 12.4 \mbox{ at } 1.39 \\ 20.0 \mbox{ at } 1.22 \\ 30.8 \mbox{ at } 0.98 \\ 62.0 \mbox{ at } 0.69 \\ 93.4 \mbox{ at } 0.56 \\ 153.0 \mbox{ at } 0.44 \\ 179.0 \mbox{ at } 0.44 \\ 179.0 \mbox{ at } 0.40 \\ 205.0 \mbox{ at } 0.38 \\ \hline 0.53 \mbox{ at } 7.09 \\ 0.76 \mbox{ at } 5.91 \\ 1.71 \mbox{ at } 3.54 \\ 3.57 \mbox{ at } 2.73 \\ 6.84 \mbox{ at } 1.27 \\ 21.6 \mbox{ at } 1.27 \\ 22.11 \mbox{ at } 2.55 \\ 2.14 \mbox{ at } 5.56 \\ 3.35 \mbox{ at } 4.45 \\ 6.56 \mbox{ at } 2.61 \\ 1.62 \mbox{ at } 1.01 \\ 97.7 \mbox{ at } 0.56 \\ 1.64 \mbox{ at } 0.56 \\ 1.64 \mbox{ at } 0.56 \\ 1.64 \mbox{ at } 0.64 \\ 214.0 \mbox{ at } 0.56 \\ 1.64 at $	MPP (C) POWDERED IRON (B) KOOL MU [®] CORE (A)
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 INDUCTANCE CORE/HEIGHT PACKAGE CODE JEDEC [®] LEAD (Pb)-FREE VALUE TOLERANCE K = KOOL MU [®] (A) ER = reel STANDARD P = POWDERED IRON (B) M = MPP (C) M = MPP (C) STANDARD							
GLOBAL PART N	UMBER						
PRODUCT FAMIL	r 4 5 Y SIZE	4 5	E R PACKAGE CODE			L K TOL. CORE	
Note • Series is also available with SnPb terminations by using package code RH for tape and reel (in place of ER)							

1 For technical questions, contact: magnetics@vishay.com Document Number: 34069

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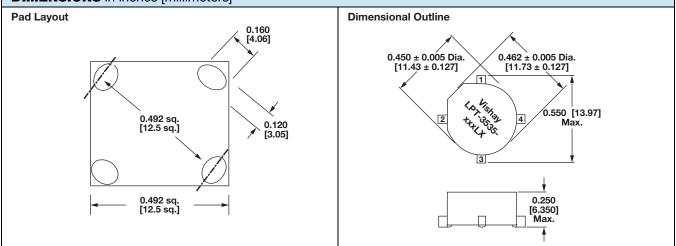
Revision: 22-Aug-17



LPT-4545

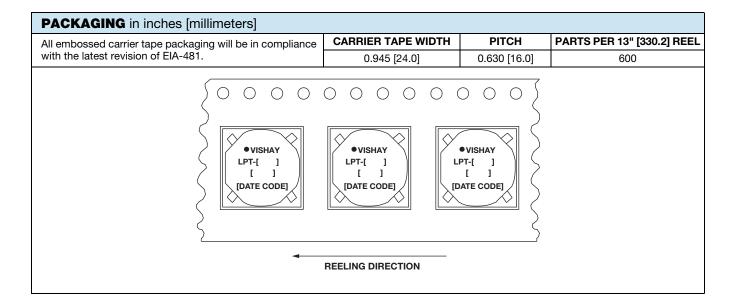
Vishay Dale

DIMENSIONS in inches [millimeters]



SCHEMATICS (connection diagrams)						
Transformer	Parallel	Series				
1 ° · · · · · · · · · · · · · · · · · ·						
2	2 ~ ~ ~ 3	23				

PART MARKING				
- Vishay				
- Model number				
- Pin 1 identification				



2 For technical questions, contact: <u>magnetics@vishav.com</u>



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