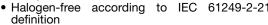


Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available



FEATURES

• Compliant to RoHS Directive 2002/95/EC





HALOGEN

FREE

Inductance Range: 10 μH to 3900 μH , measured at 0.10 V_{RMS} at 10 kHz without DC current, using an HP 4263A or 4284A impedance analyzer

DC Resistance Range: 0.06 Ω to 18.0 Ω , measured at + 25 °C ± 5 °C

Rated Current Range: 1.00 A to 0.06 A

ELECTRICAL SPECIFICATIONS

Dielectric Withstanding Voltage: 500 V_{RMS}, 60 Hz, 5 s

MODEL	IND. (µH)	IND. TOL.	SCHEMATIC LETTER	DCR MAX.	MAX. RATED DC CURRENT (A) (1)	SATURATING CURRENT (A) (2)	
LPE3325ER100NU	10	± 30 %		(Ω) 0.06	1.01	N/A	_
LPE3325ER100NU	15	± 30 % ± 30 %	A	0.08	0.91	N/A N/A	
LPE3325ER150NU	22		A		0.91	N/A N/A	
LPE3325ER220NU LPE3325ER330NU		± 30 %	A	0.09			
	33	± 30 %	A	0.11	0.75	N/A	3
LPE3325ER470NU	47	± 30 %	A	0.14	0.69		
LPE3325ER680NU	68	± 30 %	A	0.16	0.63	N/A	ū
LPE3325ER101NU	100	± 30 %	A	0.20	0.57	N/A	Š
LPE3325ER151NU	150	± 30 %	A	0.76	0.29	N/A	MODELO
LPE3325ER221NU	220	± 30 %	Α	0.92	0.26		
LPE3325ER331NU	330	± 30 %	Α	1.13	0.24	N/A	
LPE3325ER471NU	470	± 30 %	Α	1.35	0.22	N/A	2
LPE3325ER681NU	680	± 30 %	Α	1.62	0.20	N/A	5
LPE3325ER102NU	1000	± 30 %	Α	1.97	0.18	N/A	}
LPE3325ER152NU	1500	± 30 %	Α	2.41	0.16	,, .	
LPE3325ER222NU	2200	± 30 %	Α	3.00	0.15	N/A	
LPE3325ER332NU	3300	± 30 %	Α	5.96	0.10	N/A	
LPE3325ER392NU	3900	± 30 %	Α	7.00	0.10	N/A	
LPE3325ER100MG	10	± 20 %	Α	0.22	0.54	1.480	
LPE3325ER150MG	15	± 20 %	Α	0.27	0.48	1.240	
LPE3325ER220MG	22	± 20 %	Α	0.42	0.39	1.050	į
LPE3325ER330MG	33	± 20 %	Α	0.65	0.31	0.872	(
LPE3325ER470MG	47	± 20 %	Α	0.97	0.26	0.740	
LPE3325ER680MG	68	± 20 %	Α	1.45	0.21	0.622	į
LPE3325ER101MG	100	± 20 %	Α	2.22	0.17	0.518	:
LPE3325ER151MG	150	± 20 %	A	3.55	0.13		
LPE3325ER221MG	220	± 20 %	A	4.31	0.12	0.354	10000
LPE3325ER331MG	330	± 20 %	A	6.72	0.10	0.290	1
_PE3325ER471MG	470	± 20 %	A	9.83	0.08	0.244	
LPE3325ER681MG	680	± 20 %	A	14.8	0.07	0.204	(
LPE3325ER102MG	1000	± 20 %	A	18.0	0.06	0.169	

Notes

GAPPED MODELS: Capable of handling large amounts of DC current, tighter inductance tolerance with better temperature stability than ungapped models. Beneficial in DC/DC converters or other circuits carrying DC currents or requiring inductance stability over a temperature range.

DESCRIPTION									
LPE	3325	1000 μΗ	± 30 %	Α	ER	e2			
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD			

GLOBAL PART NUMBE	ER					
L P E	3 2	5	E R	1 0 2	N	С
PRODUCT FAMILY	SIZE	1	PACKAGE CODE	INDUCTANCE VALUE	TOL.	CORE

DC current that will create a maximum temperature rise of 30 °C when applied at + 25 °C ambient. DC current that will typically reduce the initial inductance by 20 %.

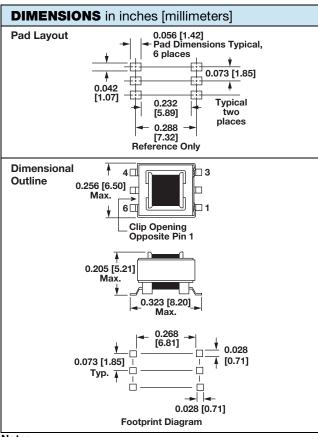
UNGAPPED MODELS: Highest possible inductance with the lowest DCR and highest Q capability. Beneficial in filter, impedance matching and

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

Vishay Dale

Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available





Notes

- Pad layout guidelines per MIL-STD-275E (printed wiring for electronic equipment).
- Tolerances: $xx \pm 0.01$ " [± 0.25 mm]; $xxx \pm 0.005$ " [± 0.12 mm].

SCHEMATIC (top view)				
Sche	ematic A			
4 0	3			
5 ⊙	c 2			
6 0	¹ 0 1			

Note

Schematic A for both gapped and ungapped LPE series

ENVIRONMENTAL PERFORMANCE				
TEST	CONDITIONS			
Thermal Cycling	Withstands - 55 °C to + 125 °C			
Operating Temperature	- 55 °C to + 125 °C ⁽¹⁾			
High Humidity	85 %			
Soldering Heat	Tested to + 230 °C			
Mechanical Shock	Per MIL-STD-202, method 213 (100G)			
Vibration	Per MIL-STD-202, method 204 (20G)			
Solderability	Per industry standards			

Note

(1) Must be checked in end use application

PART MARKING

- Vishay Dale
- Date code
- Marking code (suffix of model #)
- Pin 1 indicator

PACKAGING

TAPE SPECIFICATIONS:

Carrier Tape Type: Conductive Cover Tape Type: Anti-static

Cover Tape Adhesion to Carrier: 40 g ± 30 g

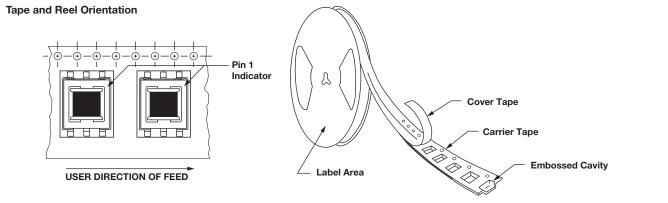
REEL SPECIFICATIONS:

Diameter (flange): 13" [330.2 mm]

Maximum Width (over flanges): 1.197" [30.4 mm]

STANDARDS: All embossed carrier tape packaging will be accomplished in compliance with latest revision of EIA-481 "Taping of Surface Mount Components for Automatic Placement".

MODEL	TAPE WIDTH	COMPONENT PITCH	UNITS PER 13" REEL
LPE-3325	24 mm	12 mm	1000



Note

· Top view shown with cover tape removed



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.