

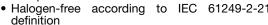
Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available



FEATURES

• Compliant to RoHS Directive 2002/95/EC

ELECTRICAL SPECIFICATIONS





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

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

MODEL	IND. (µH)	IND. TOL.	SCHEMATIC LETTER	DCR MAX.	MAX. RATED DC CURRENT	SATURATING CURRENT (A) (2)	
LPE3325ER100NU	<u>(μπ)</u>	± 30 %		(Ω) 0.06	(A) ⁽¹⁾ 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	MODELS
LPE3325ER101NU	100	± 30 %	A	0.20	0.57	N/A	۶
LPE3325ER151NU	150	± 30 %	A	0.76	0.29	N/A	5
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	6
LPE3325ER681NU	680	± 30 %	Α	1.62	0.20	N/A	5
LPE3325ER102NU	1000	± 30 %	Α	1.97	0.18	N/A	ì
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	i
LPE3325ER680MG	68	± 20 %	Α	1.45	0.21	0.622	į
LPE3325ER101MG	100	± 20 %	Α	2.22	0.17	0.518	
LPE3325ER151MG	150	± 20 %	Α	3.55	0.13		
LPE3325ER221MG	220	± 20 %	Α	4.31	0.12	0.354	į
LPE3325ER331MG	330	± 20 %	Α	6.72	0.10	0.290	10000
LPE3325ER471MG	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 μH	± 30 %	Α	ER	e2		
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD		

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

Note

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 %.

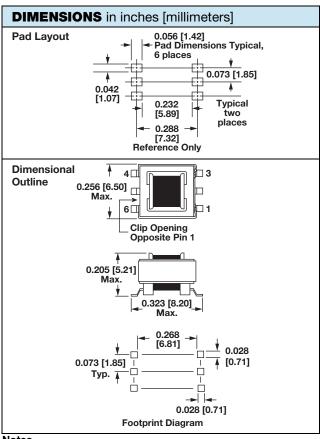
UNGAPPED MODELS: Highest possible inductance with the lowest DCR and highest Q capability. Beneficial in filter, impedance matching and

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

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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)				
Scho	ematic A			
4 0	⊙ 3			
5 ⊙				
6 ◎	11 <u>7</u>			

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

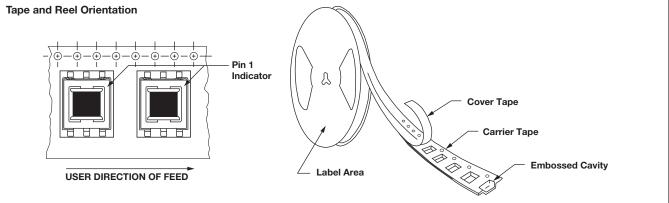
REEL SPECIFICATIONS:

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



Note

Top view shown with cover tape removed



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Vishay

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