



Vishay Dale

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



FEATURES

 Compliant to RoHS Directive 2002/95/EC Halogen-free according to IEC 61249-2-21 definition

at 0.10 V_{RMS} at 10 kHz without DC current, using an



ELECTRICAL SPECIFICATIONS Inductance Range: 10 μ H to 3900 μ H, measured

RoHS COMPLIANT HALOGEN FREE

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

	IND.	IND.	SCHEMATIC	DCR MAX.	MAX. RATED DC CURRENT	SATURATING CURRENT
MODEL	(μH)	TOL.	LETTER	(Ω)	(A) $^{(1)}$	(A) ⁽²⁾
LPE3325ER100NU	10	± 30 %	A	0.06	1.01	N/A
LPE3325ER150NU	15	± 30 %	A	0.08	0.91	N/A
LPE3325ER220NU	22	± 30 %	Α	0.09	0.83	N/A
LPE3325ER330NU	33	± 30 %	A	0.11	0.75	N/A
LPE3325ER470NU	47	± 30 %	A	0.14	0.69	N/A
LPE3325ER680NU	68	± 30 %	A	0.16	0.63	N/A N/A N/A N/A
LPE3325ER101NU	100	± 30 %	A	0.20	0.57	N/A
LPE3325ER151NU	150	± 30 %	A	0.76	0.29	N/A
LPE3325ER221NU	220	± 30 %	A	0.92	0.26	
LPE3325ER331NU	330	± 30 %	A	1.13	0.24	N/A
LPE3325ER471NU	470	± 30 %	A	1.35	0.22	N/A
LPE3325ER681NU	680	± 30 %	A	1.62	0.20	N/A N/A N/A N/A N/A N/A
LPE3325ER102NU	1000	± 30 %	A	1.97	0.18	N/A
LPE3325ER152NU	1500	± 30 %	A	2.41	0.16	
LPE3325ER222NU	2200	± 30 %	A	3.00	0.15	N/A
LPE3325ER332NU	3300	± 30 %	A	5.96	0.10	N/A
LPE3325ER392NU	3900	± 30 %	A	7.00	0.10	N/A
LPE3325ER100MG	10	± 20 %	A	0.22	0.54	1.480
LPE3325ER150MG	15	± 20 %	A	0.27	0.48	1.240
LPE3325ER220MG	22	± 20 %	A	0.42	0.39	1.050
LPE3325ER330MG	33	± 20 %	A	0.65	0.31	
LPE3325ER470MG	47	± 20 %	A	0.97	0.26	0.740
LPE3325ER680MG	68	± 20 %	A	1.45	0.21	0.622
LPE3325ER101MG	100	± 20 %	Α	2.22	0.17	0.872 0.740 0.622 0.518
LPE3325ER151MG	150	± 20 %	Α	3.55	0.13	
LPE3325ER221MG	220	± 20 %	Α	4.31	0.12	0.354
LPE3325ER331MG	330	± 20 %	Α	6.72	0.10	0.426 0.354 0.290 0.244
LPE3325ER471MG	470	± 20 %	Α	9.83	0.08	0.244
LPE3325ER681MG	680	± 20 %	Α	14.8	0.07	0.204
LPE3325ER102MG	1000	± 20 %	Α	18.0	0.06	0.169

Notes

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 %.

(2)

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

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		± 3	0 %	Α	ER			e2	
MODEL	SIZE	INDUCTANCE V	ALUE I	NDUCTANCE		ICE CORE	PACKAGE C	ODE JE	DEC LEAD	(Pb)-FREE	STANDARD
GLOB	AL P	ART NUMBE	R								
	-] [ΡΕ	3	3 2	5	E	R 1	0	2	Ν	U
P	RODUC	T FAMILY	L	SIZE		PACKAGE C		CTANCE V	ALUE	TOL.	CORE

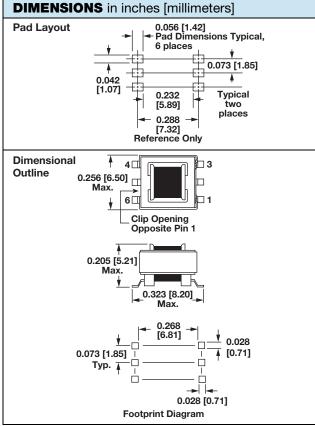
Note

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).

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Notes

Pad layout guidelines per MIL-STD-275E (printed wiring for electronic equipment).

Tolerances: xx ± 0.01" [± 0.25 mm]; xxx ± 0.005" [± 0.12 mm].

SCHEMATIC (top view)

Schematic A					
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5	0	\$ ◎ 2			
6	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			

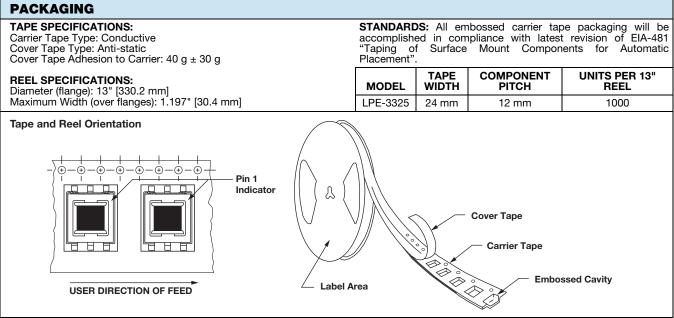
Note

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⁽¹⁾ Must be checked in end use application

PART MARKING

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



Note

• Top view shown with cover tape removed



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