

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



ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μ H to 3900 μ H, measured at 0.10 V RMS at 10 kHz without DC current, using an HP 4263A or 4284A impedance analyzer

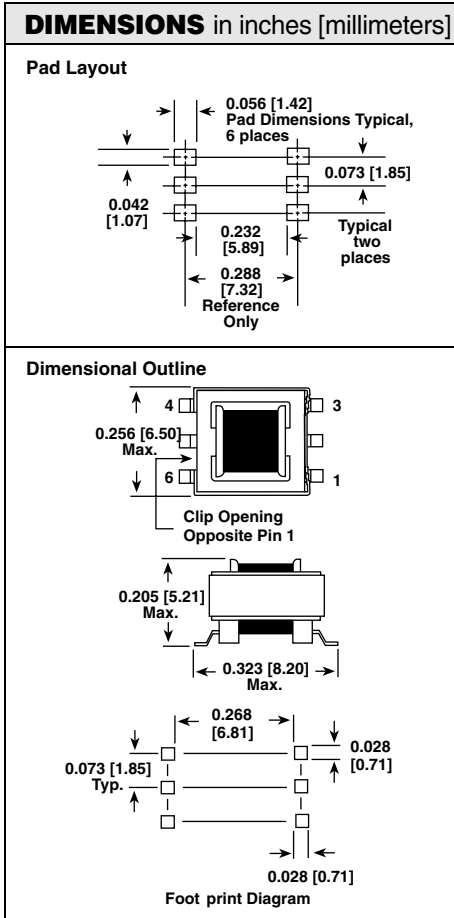
DC Resistance Range: 0.06 Ω to 18.0 Ω , measured at + 25 °C \pm 5 °C

Rated Current Range: 1.00 amps to 0.06 amps

Dielectric Withstanding Voltage: 500 V RMS, 60 Hz, 5 seconds



RoHS COMPLIANT



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

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

* 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 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 to DC converters or other circuits carrying DC currents or requiring inductance stability over a temperature range.

DESCRIPTION													
LPE	3325	1000 μ H	\pm 30 %	A	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 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).

SCHEMATIC (TOP VIEW)

Schematic A



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*
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

* 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 ± 30 grams

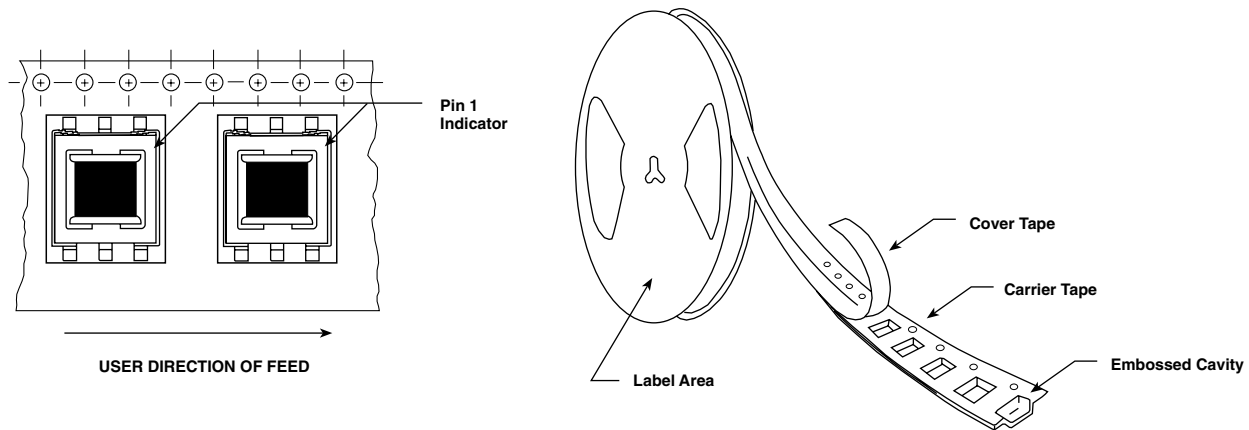
REEL SPECIFICATIONS:

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 INCH REEL
LPE-3325	24 mm	12 mm	1000

Tape and Reel Orientation



NOTE: Top view shown with cover tape removed



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