

Surface Mount Transformers/Inductors

Gapped and Ungapped, Custom Configurations Available



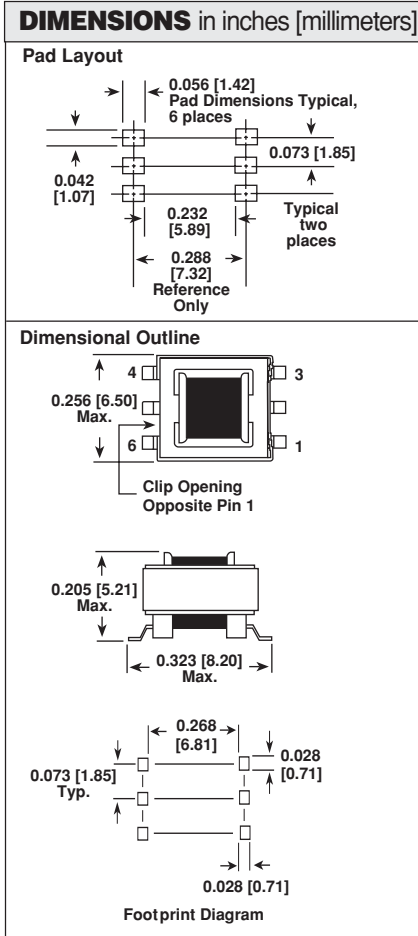
ELECTRICAL SPECIFICATIONS

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

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

Rated Current Range: 1.00 amps to .06 amps.

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



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

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μ H)	IND. TOL.	SCHEMATIC LETTER	DCR MAX. (Ohms)	MAX. RATED* DC CURRENT (Amps)	SATURATING** CURRENT (Amps)
Ungapped Models						
LPE-3325-100NA	10	\pm 30%	A	0.06	1.01	N/A
LPE-3325-150NA	15	\pm 30%	A	0.08	0.91	N/A
LPE-3325-220NA	22	\pm 30%	A	0.09	0.83	N/A
LPE-3325-330NA	33	\pm 30%	A	0.11	0.75	N/A
LPE-3325-470NA	47	\pm 30%	A	0.14	0.69	N/A
LPE-3325-680NA	68	\pm 30%	A	0.16	0.63	N/A
LPE-3325-101NA	100	\pm 30%	A	0.20	0.57	N/A
LPE-3325-151NA	150	\pm 30%	A	0.76	0.29	N/A
LPE-3325-221NA	220	\pm 30%	A	0.92	0.26	N/A
LPE-3325-331NA	330	\pm 30%	A	1.13	0.24	N/A
LPE-3325-471NA	470	\pm 30%	A	1.35	0.22	N/A
LPE-3325-681NA	680	\pm 30%	A	1.62	0.20	N/A
LPE-3325-102NA	1000	\pm 30%	A	1.97	0.18	N/A
LPE-3325-152NA	1500	\pm 30%	A	2.41	0.16	N/A
LPE-3325-222NA	2200	\pm 30%	A	3.00	0.15	N/A
LPE-3325-332NA	3300	\pm 30%	A	5.96	0.10	N/A
LPE-3325-392NA	3900	\pm 30%	A	7.00	0.10	N/A
Gapped Models						
LPE-3325-100MB	10	\pm 20%	A	0.22	0.54	1.480
LPE-3325-150MB	15	\pm 20%	A	0.27	0.48	1.240
LPE-3325-220MB	22	\pm 20%	A	0.42	0.39	1.050
LPE-3325-330MB	33	\pm 20%	A	0.65	0.31	0.872
LPE-3325-470MB	47	\pm 20%	A	0.97	0.26	0.740
LPE-3325-680MB	68	\pm 20%	A	1.45	0.21	0.622
LPE-3325-101MB	100	\pm 20%	A	2.22	0.17	0.518
LPE-3325-151MB	150	\pm 20%	A	3.55	0.13	0.426
LPE-3325-221MB	220	\pm 20%	A	4.31	0.12	0.354
LPE-3325-331MB	330	\pm 20%	A	6.72	0.10	0.290
LPE-3325-471MB	470	\pm 20%	A	9.83	0.08	0.244
LPE-3325-681MB	680	\pm 20%	A	14.8	0.07	0.204
LPE-3325-102MB	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%.

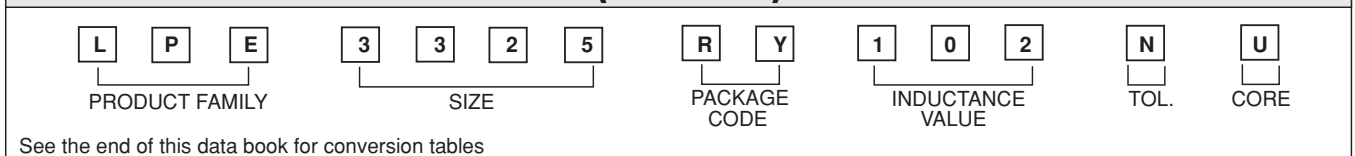
UNGAPPED MODELS: Highest possible inductance with the lowest DCR and highest Q capability. Beneficial in filter, impedance matching and line coupling devices.

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-3325-102NA

LPE	3325	1000 μ H	\pm 30%	A
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE

SAP PART NUMBERING GUIDELINES (INTERNAL)



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.

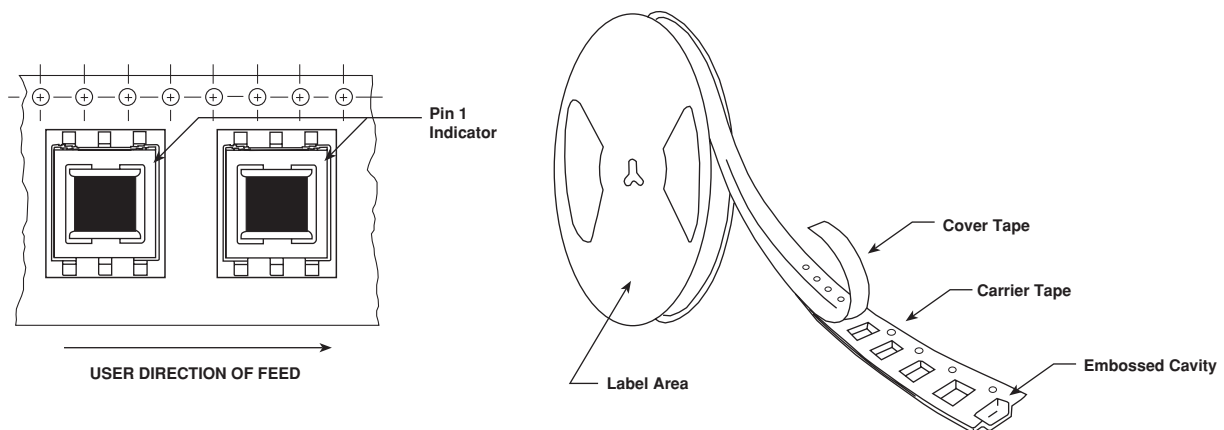
REEL SPECIFICATIONS:

Diameter (flange): 13" [330.2mm].
 Maximum Width (over flanges): 1.197" [30.4mm].

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	24mm	12mm	1000

Tape and Reel Orientation



NOTE: Top view shown with cover tape removed.