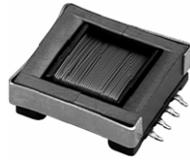


Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available


FEATURES

- Compliant to RoHS directive 2002/95/EC


ELECTRICAL SPECIFICATIONS

(Multiple winds are connected in parallel)

Inductance Range: 10 μ H to 150 000 μ H, measured at 0.10 V_{RMS} at 10 kHz without DC current, using an HP 4263A or HP 4284A impedance analyzer

DC Resistance Range: 0.02 Ω to 46.2 Ω , measured at + 25 °C \pm 5 °C

Rated Current Range: 3.20 A to 0.17 A

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

STANDARD ELECTRICAL SPECIFICATIONS						
MODEL	IND. (μ H)	IND. TOL.	SCHEMATIC LETTER	DCR MAX. (Ω)	MAX. RATED DC CURRENT (A) ⁽¹⁾	SATURATING CURRENT (A) ⁽²⁾
LPE6855ER151NU	150	\pm 30 %	A	0.28	0.84	N/A
LPE6855ER221NU	220	\pm 30 %	A	0.34	0.76	N/A
LPE6855ER331NU	330	\pm 30 %	A	0.41	0.69	N/A
LPE6855ER471NU	470	\pm 30 %	A	0.49	0.63	N/A
LPE6855ER681NU	680	\pm 30 %	A	0.59	0.57	N/A
LPE6855ER102NU	1000	\pm 30 %	A	0.72	0.52	N/A
LPE6855ER152NU	1500	\pm 30 %	A	0.88	0.47	N/A
LPE6855ER222NU	2200	\pm 30 %	A	1.07	0.43	N/A
LPE6855ER332NU	3300	\pm 30 %	A	1.31	0.39	N/A
LPE6855ER472NU	4700	\pm 30 %	A	1.56	0.35	N/A
LPE6855ER682NU	6800	\pm 30 %	A	1.88	0.32	N/A
LPE6855ER103NU	10 000	\pm 30 %	A	7.17	0.16	N/A
LPE6855ER153NU	15 000	\pm 30 %	A	8.78	0.15	N/A
LPE6855ER223NU	22 000	\pm 30 %	A	10.6	0.14	N/A
LPE6855ER333NU	33 000	\pm 30 %	A	13.0	0.12	N/A
LPE6855ER473NU	47 000	\pm 30 %	A	15.5	0.11	N/A
LPE6855ER683NU	68 000	\pm 30 %	A	18.7	0.10	N/A
LPE6855ER104NU	100 000	\pm 30 %	A	37.7	0.07	N/A
LPE6855ER154NU	150 000	\pm 30 %	A	46.2	0.06	N/A
LPE6855ER100MG	10	\pm 20 %	B	0.02	3.21	3.375
LPE6855ER150MG	15	\pm 20 %	B	0.03	2.90	2.790
LPE6855ER220MG	22	\pm 20 %	B	0.04	2.64	2.325
LPE6855ER330MG	33	\pm 20 %	B	0.05	2.12	1.910
LPE6855ER470MG	47	\pm 20 %	B	0.08	1.73	1.610
LPE6855ER680MG	68	\pm 20 %	B	0.12	1.41	1.350
LPE6855ER101MG	100	\pm 20 %	B	0.15	1.28	1.120
LPE6855ER151MG	150	\pm 20 %	C	0.23	1.02	0.915
LPE6855ER221MG	220	\pm 20 %	D	0.35	0.83	0.757
LPE6855ER331MG	330	\pm 20 %	D	0.55	0.67	0.620
LPE6855ER471MG	470	\pm 20 %	D	0.82	0.54	0.520
LPE6855ER681MG	680	\pm 20 %	E	1.23	0.45	0.433
LPE6855ER102MG	1000	\pm 20 %	E	1.89	0.36	0.358
LPE6855ER152MG	1500	\pm 20 %	E	2.90	0.29	0.292
LPE6855ER222MG	2200	\pm 20 %	E	4.50	0.23	0.242
LPE6855ER332MG	3300	\pm 20 %	E	5.50	0.21	0.197
LPE6855ER472MG	4700	\pm 20 %	E	8.30	0.17	0.166

Notes
⁽¹⁾ DC current that will create a maximum temperature rise of 30 °C when applied at + 25 °C ambient.

⁽²⁾ 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.

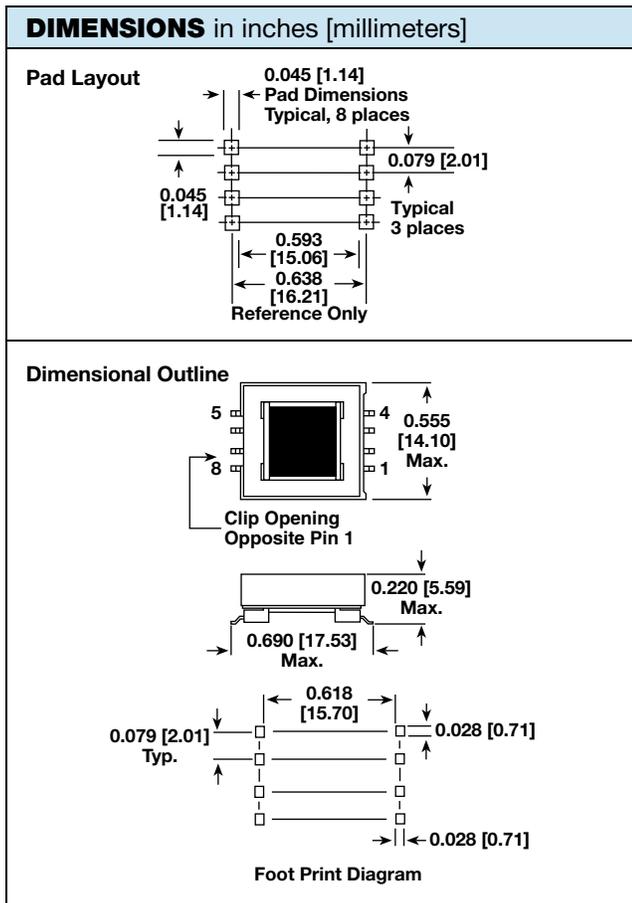
GAPPED MODELS: Capable of handling large amounts of DC current, tighter inductance tolerance with better temperature stability than ungapped models. Beneficial in DC/DC converters or other circuits carrying DC currents or requiring inductance stability over a temperature range.

DESCRIPTION						
LPE	6855	1000 μ H	\pm 30 %	A	ER	e2
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

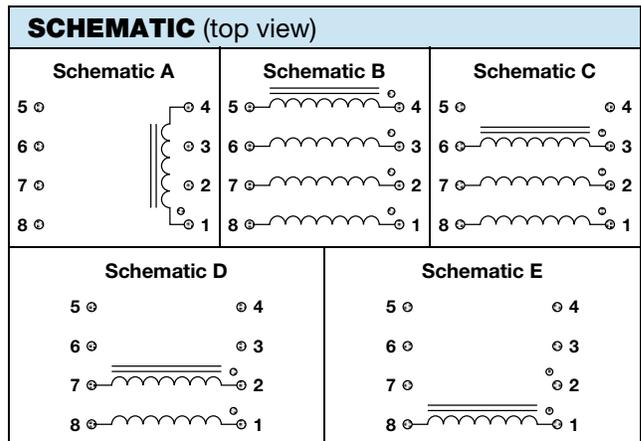
GLOBAL PART NUMBER													
L	P	E	6	8	5	5	E	R	1	0	2	N	U
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	CORE	

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).



- 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].



- Note**
- Schematic A is for un-gapped 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

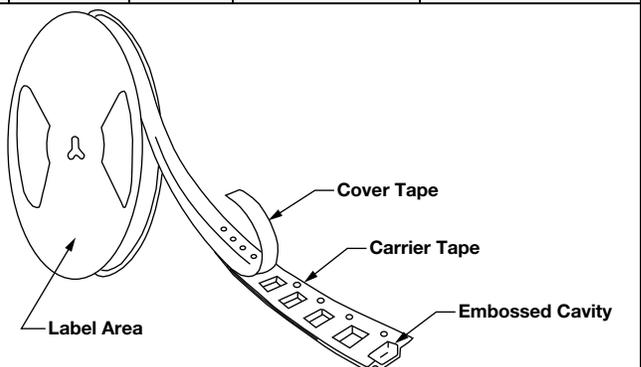
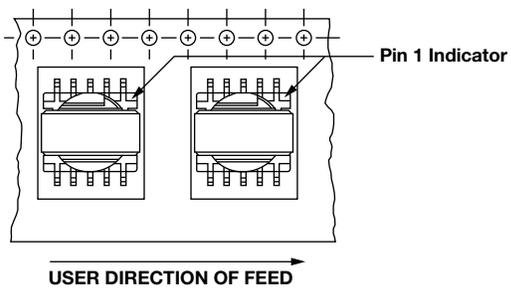
TAPE SPECIFICATIONS:
Carrier Tape Type: Conductive
Cover Tape Type: Anti-static
Cover Tape Adhesion to Carrier: 40 g ± 30 g

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-6855	32 mm	20 mm	450

Tape and Reel Orientation



- Note**
- Top view shown with cover tape removed



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