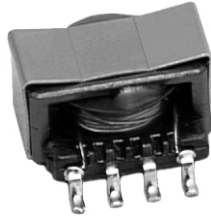


Surface Mount Transformers/Inductors, Gapped and Ungapped, Custom Configurations Available


FEATURES

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


ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μ H to 47 000 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: 0.03 Ω to 19.1 Ω , measured at + 25 °C \pm 5 °C

Rated Current Range: 2.00 A to 0.09 A

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

**RoHS
COMPLIANT
HALOGEN
FREE**

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (μ H)	IND. TOL.	SCHEMATIC LETTER	DCR MAX. (Ω)	MAX. RATED DC CURRENT (A) ⁽¹⁾	SATURATING CURRENT (A) ⁽²⁾	
LPE4841ER101NU	100	\pm 30 %	A	0.17	0.88	N/A	UNGAPPED MODELS (A)
LPE4841ER151NU	150	\pm 30 %	A	0.21	0.79	N/A	
LPE4841ER221NU	220	\pm 30 %	A	0.25	0.721	N/A	
LPE4841ER331NU	330	\pm 30 %	A	0.30	0.65	N/A	
LPE4841ER471NU	470	\pm 30 %	A	0.36	0.60	N/A	
LPE4841ER681NU	680	\pm 30 %	A	0.44	0.54	N/A	
LPE4841ER102NU	1000	\pm 30 %	A	0.53	0.49	N/A	
LPE4841ER152NU	1500	\pm 30 %	A	0.65	0.45	N/A	
LPE4841ER222NU	2200	\pm 30 %	A	0.79	0.40	N/A	
LPE4841ER332NU	3300	\pm 30 %	A	1.55	0.29	N/A	
LPE4841ER472NU	4700	\pm 30 %	A	1.85	0.26	N/A	
LPE4841ER682NU	6800	\pm 30 %	A	4.36	0.17	N/A	
LPE4841ER103NU	10 000	\pm 30 %	A	5.29	0.16	N/A	
LPE4841ER153NU	15 000	\pm 30 %	A	6.48	0.14	N/A	
LPE4841ER223NU	22 000	\pm 30 %	A	13.1	0.10	N/A	
LPE4841ER333NU	33 000	\pm 30 %	A	16.0	0.09	N/A	
LPE4841ER473NU	47 000	\pm 30 %	A	19.1	0.08	N/A	
LPE4841ER100MG	10	\pm 20 %	B	0.03	2.03	2.320	UNGAPPED MODELS (B)
LPE4841ER150MG	15	\pm 20 %	B	0.04	1.84	1.925	
LPE4841ER220MG	22	\pm 20 %	C	0.07	1.32	1.610	
LPE4841ER330MG	33	\pm 20 %	C	0.09	1.20	1.330	
LPE4841ER470MG	47	\pm 20 %	D	0.13	0.98	1.125	
LPE4841ER680MG	68	\pm 20 %	D	0.21	0.79	0.941	
LPE4841ER101MG	100	\pm 20 %	E	0.35	0.58	0.781	
LPE4841ER151MG	150	\pm 20 %	E	0.48	0.52	0.641	
LPE4841ER221MG	220	\pm 20 %	E	0.73	0.42	0.532	
LPE4841ER331MG	330	\pm 20 %	E	1.14	0.34	0.436	
LPE4841ER471MG	470	\pm 20 %	E	1.36	0.31	0.366	
LPE4841ER681MG	680	\pm 20 %	E	2.07	0.25	0.305	
LPE4841ER102MG	1000	\pm 20 %	E	3.15	0.20	0.252	
LPE4841ER152MG	1500	\pm 20 %	E	4.76	0.16	0.206	
LPE4841ER222MG	2200	\pm 20 %	E	7.29	0.13	0.170	
LPE4841ER332MG	3300	\pm 20 %	E	11.7	0.11	0.139	
LPE4841ER472MG	4700	\pm 20 %	E	17.7	0.09	0.117	

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

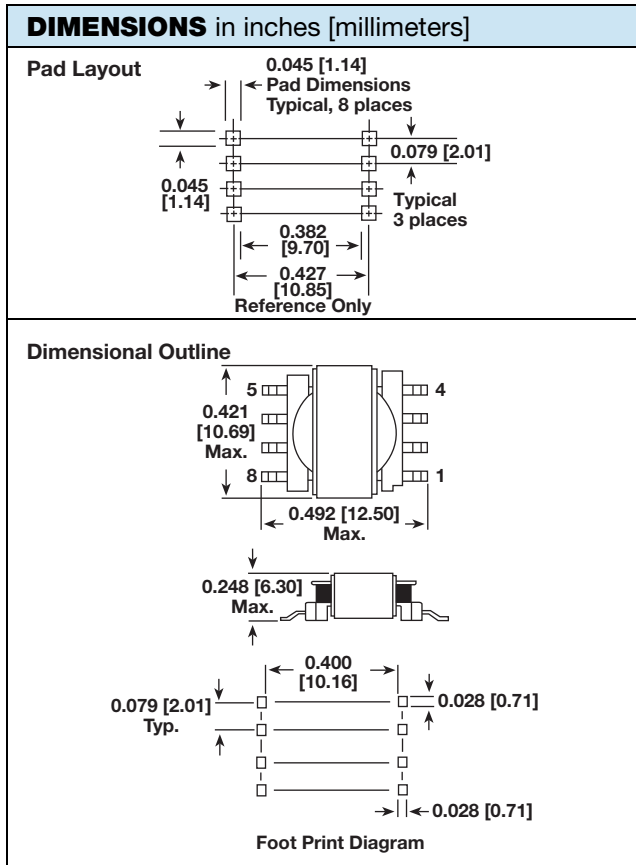
LPE	4841	1000 μ H	\pm 30 %	A	ER	e2
MODEL	SIZE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	CORE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

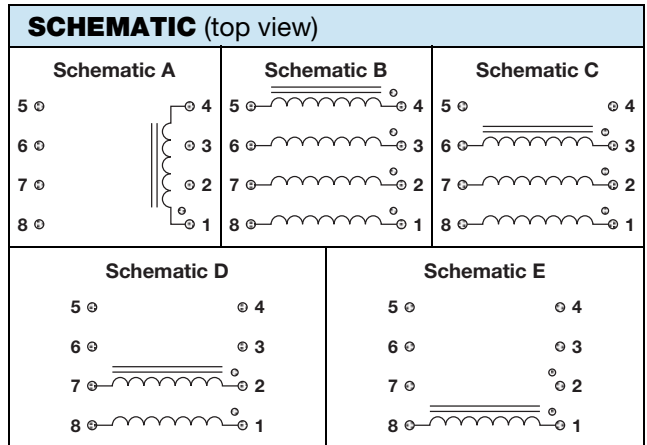
L	P	E	4	8	4	1	E	R	1	0	2	N	U
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	CORE	

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: $xx \pm 0.01''$ [± 0.25 mm]; $xxx \pm 0.005''$ [± 0.12 mm].
 - The underside of these components contains metal and thus should not come in contact with active circuit traces.



- Note**
- Schematic A is for 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

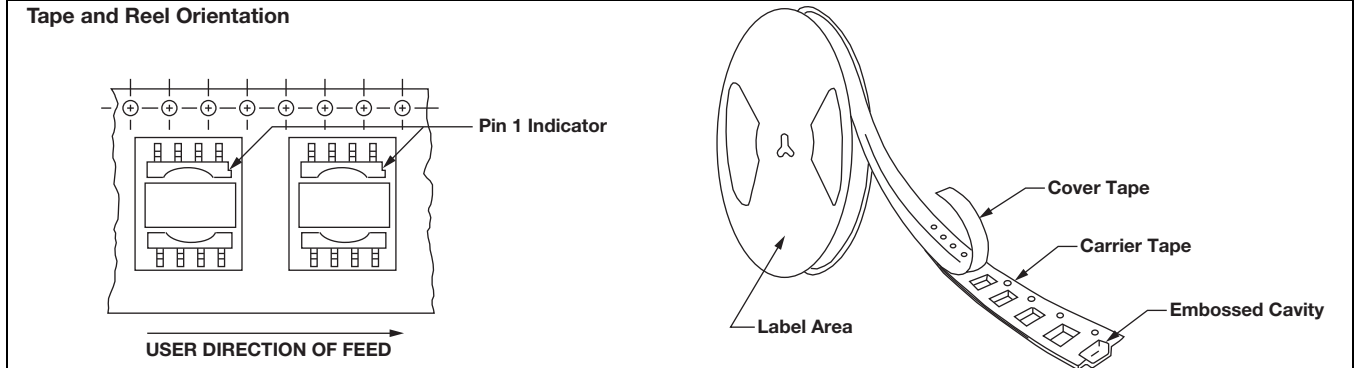
PACKAGING

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	TAPE WIDTH	COMPONENT PITCH	UNITS PER 13" REEL
LPE-4841	24 mm	16 mm	600



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



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

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(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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