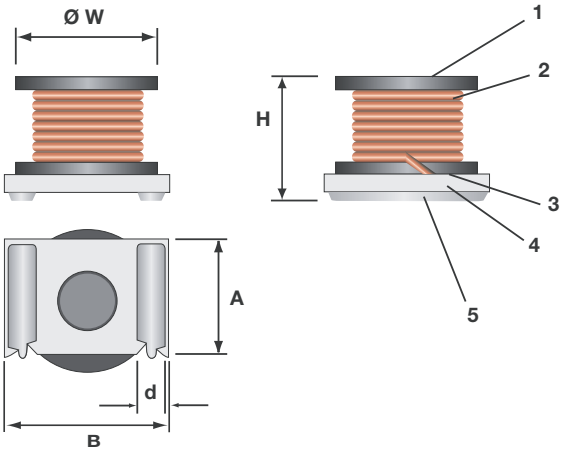
FERRITE CORE

POWER INDUCTOR
LPC 4045



STRUCTURE

1 Ferrite core
2 Winding wire
3 Epoxy adhesive
4 Ceramic substrate
5 Electrode

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LPC 4045	None	None

TYPE DESIGNATION (HOW TO ORDER)

Old Part No.	LPC 4045		K	TE	101	
New Part No.	LPC 4045	L		TE	101	K
	PRODUCT CODE	TERMINATION SURFACE MATERIAL L: Sn/Pb A: SnAg	INDUCTANCE TOLERANCE	TAPING* *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits (Unit: µH)	INDUCTANCE TOLERANCE

FEATURES

- Large permissible DC current and small DC resistance
- Small surface area allows high mounting density
- Small size and low height
- Suitable for reflow soldering
- Operating temperature range: - 40° C ... + 85° C
- Inductors for extended ambient temperature range: - 40° C ... + 125° C on request (Type LPC 4045 E K TE xxx) (10 µH ... 680 µH)
- Embossed carrier tape packaging available
- Lab Kit available

DIMENSIONS (mm)

PRODUCT CODE	∅ W	H	A	B	d
LPC 4045	4.0 ± 0.2	4.3 ± 0.2	3.0 ± 0.2	4.5 ± 0.2	1.0 ± 0.3

RATING

TYPE	INDUCTANCE*		QUALITY FACTOR		SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT (MAX.)
	NOM. VALUE	TOLERANCE	Q (MIN.)	FREQUENCY			
LPC 4045 TE 1R0	1 µH	M (±20%)	20	2.52 MHz	90.0 MHz	0.015 Ω	3.10 A
LPC 4045 TE 1R5	1.5 µH				70.0 MHz	0.020 Ω	2.80 A
LPC 4045 TE 2R2	2.2 µH				55.0 MHz	0.023 Ω	2.50 A
LPC 4045 TE 3R3	3.3 µH				45.0 MHz	0.044 Ω	1.80 A
LPC 4045 TE 4R7	4.7 µH				35.0 MHz	0.062Ω	1.45 A
LPC 4045 TE 6R8	6.8 µH				25.0 MHz	0.075 Ω	1.30 A
LPC 4045 TE 100	10 µH	K (± 10%)			23.5 MHz	0.10 Ω	1.02 A
LPC 4045 TE 150	15 µH				18.5 MHz	0.15 Ω	0.84 A
LPC 4045 TE 220	22 µH				14.0 MHz	0.21 Ω	0.70 A
LPC 4045 TE 330	33 µH				12.0 MHz	0.41 Ω	0.52 A
LPC 4045 TE 470	47 µH				10.5 MHz	0.52 Ω	0.46 A
LPC 4045 TE 680	68 µH				8.0 MHz	0.67 Ω	0.40 A
LPC 4045 TE 101	100 µH			0.796 MHz	6.3 MHz	0.92 Ω	0.28 A
LPC 4045 TE 151	150 µH		40		5.2 MHz	1.80 Ω	0.25 A
LPC 4045 TE 221	220 µH				3.9 MHz	2.25 Ω	0.18 A
LPC 4045 TE 331	330 µH				3.0 MHz	4.27 Ω	0.15 A
LPC 4045 TE 471	470 µH				2.7 MHz	5.23 Ω	0.14 A
LPC 4045 TE 681	680 µH				2.2 MHz	6.67 Ω	0.12 A

*Inductance measuring frequency: 1 kHz

Specifications given herein may be changed at any time without prior notice. Please confirm technical specifications before you order and/or use.