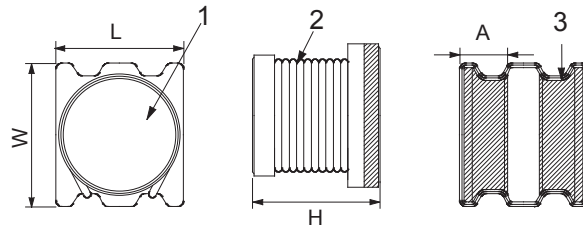
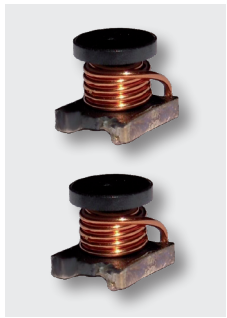


**FERRITE CORE
POWER INDUCTOR
LPC 4545**

NEW



STRUCTURE

- 1 Ferrite core
- 2 Winding wire
- 3 Electrode

IDENTIFICATION

PRODUCT CODE	BODY COLOR	MARKING
LPC 4545	Clear	None

All these products have Pb-free terminations and meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

LPC 4545	C	TE	220	K
PRODUCT CODE	TERMINATION SURFACE MATERIAL C: Sn/Cu	TAPING* TE: 2500 pcs/reel BK: Bulk = 100pcs *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits (Unit: μ H)	INDUCTANCE TOLERANCE K: ($\pm 10\%$) M: ($\pm 20\%$)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

FEATURES

- Large permissible DC current and small DC resistance are realized by the original construction and wiring technology
- Excellent solderability and endurance environment
- Ideal for use in DC-DC converter inductor applications
- Automatic surface mounting is applicable
- Operating temperature range*: $-40^{\circ}\text{C} \dots +125^{\circ}\text{C}$
- Suitable for reflow soldering
- Embossed carrier tape packaging available

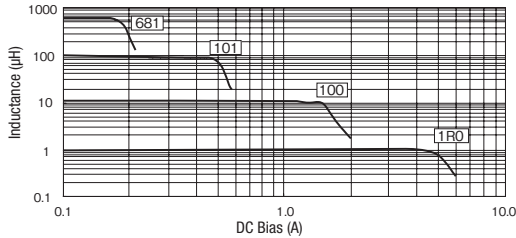
- Highest rated current in 4mm size
- Easy soldering inspection by side electrodes
- Parts are tested according to AEC-Q200 requirements

*Including self-temperature rise

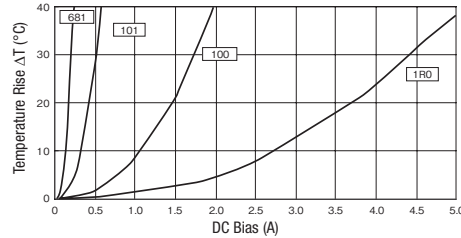
DIMENSIONS (mm)

PRODUCT CODE	L	W	H Max.	A
LPC 4545	4.1 ± 0.3	4.6 ± 0.4	4.6	1.4 ± 0.3

**TYPICAL FREQUENCY CHARACTERISTICS OF LPC 4545
DC BIAS**



SURFACE TEMPERATURE RISE



RATING

TYPE	INDUCTANCE		INDUCTANCE MEASURING FREQUENCY	SELF-RESONANT FREQUENCY (MIN.)	DC RESISTANCE (MAX.)	ALLOWABLE DC CURRENT* (MAX.)		
	NOM. VALUE	TOLERANCE						
LPC 4545 C TE 1R0 M	1 μ H	M ($\pm 20\%$)	100 kHz	90.0 MHz	0.015 Ω	3.66 A		
LPC 4545 C TE 1R5 M	1.5 μ H			65.0 MHz	0.02 Ω	3.21 A		
LPC 4545 C TE 2R2 M	2.2 μ H			50.0 MHz	0.023 Ω	2.96 A		
LPC 4545 C TE 3R3 M	3.3 μ H			40.0 MHz	0.044 Ω	2.19 A		
LPC 4545 C TE 4R7 M	4.7 μ H			35.0 MHz	0.062 Ω	1.81 A		
LPC 4545 C TE 6R8 M	6.8 μ H			25.0 MHz	0.075 Ω	1.60 A		
LPC 4545 C TE 100 K	10 μ H			K ($\pm 10\%$)	1 kHz	23.0 MHz	0.1 Ω	1.43 A
LPC 4545 C TE 150 K	15 μ H					15.0 MHz	0.15 Ω	1.04 A
LPC 4545 C TE 220 K	22 μ H					13.0 MHz	0.21 Ω	0.88 A
LPC 4545 C TE 330 K	33 μ H					10.0 MHz	0.41 Ω	0.60 A
LPC 4545 C TE 470 K	47 μ H	9.0 MHz	0.52 Ω			0.53 A		
LPC 4545 C TE 680 K	68 μ H	7.5 MHz	0.67 Ω			0.49 A		
LPC 4545 C TE 101 K	100 μ H	5.5 MHz	0.92 Ω			0.41 A		
LPC 4545 C TE 151 K	150 μ H	5.0 MHz	1.8 Ω			0.29 A		
LPC 4545 C TE 221 K	220 μ H	4.0 MHz	2.25 Ω			0.26 A		
LPC 4545 C TE 331 K	330 μ H	2.5 MHz	4.27 Ω			0.19 A		
LPC 4545 C TE 471 K	470 μ H	2.0 MHz	5.23 Ω	0.17 A				
LPC 4545 C TE 681 K	680 μ H	1.8 MHz	6.67 Ω	0.15 A				
LPC 4545 C TE 152 K	1500 μ H	1.3 MHz	17.04 Ω	0.10 A				

*Allowable current is a DC Current which causes initial inductance to decrease by 10% or coil temperature to rise by 40°C , whichever is smaller.

Avoid strong pressure or excessive shock at mounting or after mounting because electric/magnetic characteristics may change if it is applied to the inductors.

Due to the products using ferrite for coil bobbins, use them 85°C or under of inductor temperature because the volume of generating heat varies depending on switching frequency.

Contact our sales representatives before you use our products for applications including automobiles, medical equipment and aerospace equipment. Malfunction or failure of the products in such applications may cause loss of human life or serious damage.

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