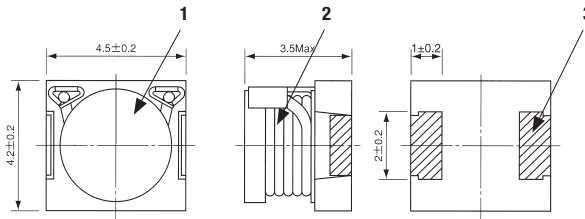


FERRITE CORE POWER INDUCTOR LPC 4235



STRUCTURE

- 1 Ferrite core
- 2 Winding wire
- 3 Electrode

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
LPC 4235	Clear	No marking

Products with Pb-free terminations meet EU-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

LPC 4235	T	TM	680	K
PRODUCT CODE	TERMINATION SURFACE MATERIAL	TAPING* TM: 2.000 pcs/reel BK: Bulk = 100pcs L: (Sn/Pb) *Please see "PACKAGING"	NOMINAL INDUCTANCE 3 digits (Unit: μH)	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

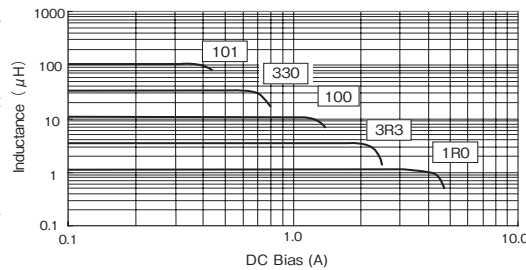
- Large permissible DC current and small DC resistance are realized by the original construction and wiring technology
 - Small surface area allows high mounting density
 - Inductor with low height: 3.5 mm
 - Operating temperature range*: - 40° C ... + 125° C
 - Suitable for reflow soldering
 - Embossed carrier tape packaging available
 - Easy soldering inspection by side electrodes
 - Parts are tested according to AEC-Q200 requirements
- * Including self-temperature rise

DIMENSIONS (mm)

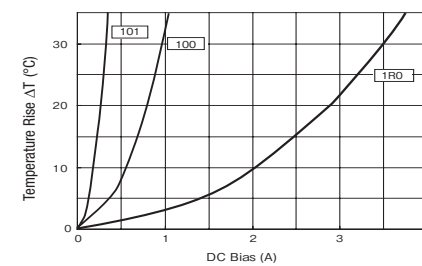
PRODUCT CODE	LENGTH, WIDTH, HEIGHT, PADS
LPC 4235	Please see above figure

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 4235 □ TE R82 M	0.82 μH	M($\pm 20\%$)	100 kHz	146.6 MHz	0.017 Ω	3.34 A		
LPC 4235 □ TE 1R0 M	1.0 μH			125.1 MHz	0.020 Ω	3.27 A		
LPC 4235 □ TE 1R2 M	1.2 μH			114.7 MHz	0.023 Ω	3.10 A		
LPC 4235 □ TE 1R5 M	1.5 μH			101.4 MHz	0.031 Ω	2.53 A		
LPC 4235 □ TE 2R2 M	2.2 μH			78.8 MHz	0.039 Ω	2.28 A		
LPC 4235 □ TE 3R3 M	3.3 μH			66.7 MHz	0.070 Ω	1.63 A		
LPC 4235 □ TE 4R7 M	4.7 μH			52.0 MHz	0.090 Ω	1.44 A		
LPC 4235 □ TE 6R8 M	6.8 μH			43.5 MHz	0.109 Ω	1.29 A		
LPC 4235 □ TE 100 K	10 μH			K($\pm 10\%$)	1 kHz	33.5 MHz	0.190 Ω	0.91 A
LPC 4235 □ TE 150 K	15 μH					29.1 MHz	0.230 Ω	0.87 A
LPC 4235 □ TE 220 K	22 μH	21.7 MHz	0.366 Ω			0.69 A		
LPC 4235 □ TE 330 K	33 μH	13.9 MHz	0.542 Ω			0.52 A		
LPC 4235 □ TE 470 K	47 μH	12.0 MHz	0.688 Ω			0.47 A		
LPC 4235 □ TE 680 K	68 μH	12.7 MHz	1.300 Ω			0.34 A		
LPC 4235 □ TE 101 K	100 μH	10.4 MHz	1.660 Ω			0.31 A		
LPC 4235 □ TE 151 K	150 μH	7.5 MHz	2.960 Ω			0.22 A		
LPC 4235 □ TE 221 K	220 μH	6.7 MHz	3.770 Ω	0.20 A				

□ Enter the code for termination surface material (T, L)

*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 or use.