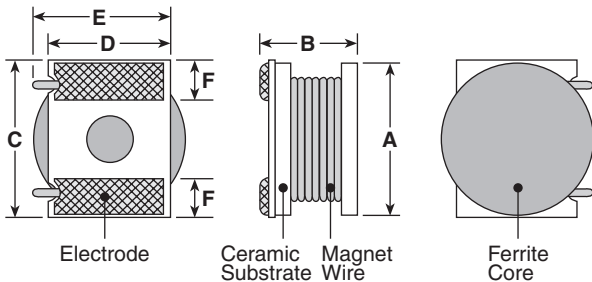


features

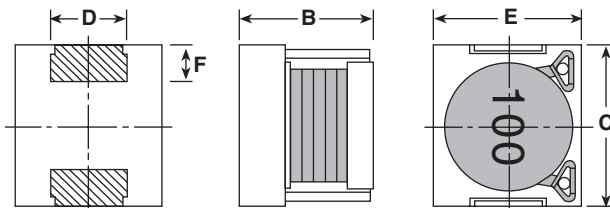
- Small size allows for high mounting density
- Suitable for reflow soldering
- Large DC current capacity with low DC resistance
- Polarity identification available
- E-6 series of values (customs available)
- Marking: Black body color with no marking
- Products with lead-free terminations meet EU RoHS requirements

dimensions and construction

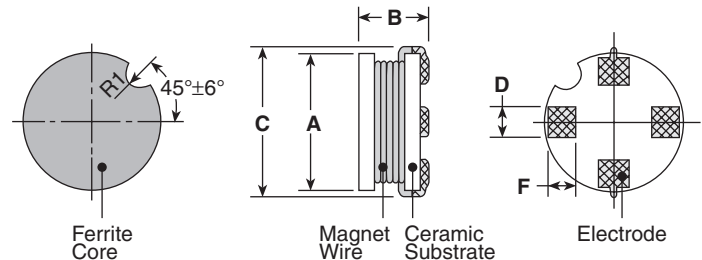


4045, 10065, 12065

| Size | Dimensions inches (mm) | | | | | |
|-------|---|---|--|---------------------------------------|--------------------------------------|--------------------------------------|
| | A | B | C | D | E | F |
| 4045 | $\phi .157 \pm .008$ ($\phi 4.0 \pm 0.2$) | $.169 \pm .009$ (4.3 ± 0.2) | $.177 \pm .008$ (4.5 ± 0.2) | $.118 \pm .008$ (3.0 ± 0.2) | $.138$ (3.5) | $.039 \pm .012$ (1.0 ± 0.3) |
| 4235 | — | $.138 \text{ Max.}$ (3.5 Max.) | $.177 \pm .008$ (4.5 ± 0.2) | $.079 \pm .008$ (2.0 ± 0.2) | $.165 \pm .008$ (4.2 ± 0.2) | $.039 \pm .008$ (1.0 ± 0.2) |
| 9040N | $\phi .354 \pm .002$ ($\phi 9.0 \pm 0.05$) | $.193 \text{ Max.}$ (4.9 Max.) | $.402 \text{ Max.}$ (10.2 Max.) | $.079 \pm .008$ (2.0 ± 0.2) | — | $.071 \pm .008$ (1.8 ± 0.2) |
| 10065 | $\phi .394 \pm .008$ ($\phi 10.0 \pm 0.2$) | $.295 \text{ Max.}$ (7.5 Max.) | $.409 \pm .008$ (10.4 ± 0.2) | $.315 \pm .008$ (8.0 ± 0.2) | $.354$ (9.0) | $.098 \pm .008$ (2.5 ± 0.2) |
| 12065 | $\phi .472 \pm .008$ ($\phi 12.0 \pm 0.2$) | $.295 \text{ Max.}$ (7.5 Max.) | $.488 \pm .008$ (12.4 ± 0.2) | $.472 \pm .008$ (10.0 ± 0.2) | $.433$ (11.0) | $.146 \pm .012$ (3.7 ± 0.3) |



4235



9040N

ordering information

| New Part # | LPC | 4045 | A | TED | 101 | K |
|------------|------|---|---------------------------------|--|---|-------------------------------|
| | Type | Size | Termination Material | Packaging | Nominal Inductance | Tolerance |
| | | 4045 4235 9040N 10065 12065 | A: SnAg T: Sn (LPC4235 only) | TED: 10" embossed plastic (4045 - 1,000 pieces/reel) (4235 - 2,000 pieces/reel) (9040N - 500 pieces/reel) (10065 - 300 pieces/reel) (12065 - 300 pieces/reel) | 101: 100μH 221: 220μH 152: 1500μH | K: ±10% M: ±20% N: ±30% |

For further information on packaging, please refer to Appendix A.

applications and ratings

| Part Designation | Inductance (μH) | Inductance Tolerance | Quality Factor Minimum (MHz) | Self Resonant Frequency Minimum (MHz) | DC Resistance Maximum (Ω) | Allowable DC Current Maximum (Amps) | Measured Frequency (Hz) | | |
|------------------|-----------------|----------------------|------------------------------|---------------------------------------|---------------------------|-------------------------------------|---------------------------|------------------------|------|
| LPC4045ATED1R0M | 1.0 | M: ±20% | 20 | 90.0 | 0.015 | 3.10 | 1000 | | |
| LPC4045ATED1R5M | 1.5 | | | 70.0 | 0.020 | 2.80 | | | |
| LPC4045ATED2R2M | 2.2 | | | 55.0 | 0.023 | 2.50 | | | |
| LPC4045ATED3R3M | 3.3 | | | 45.0 | 0.044 | 1.80 | | | |
| LPC4045ATED4R7M | 4.7 | | | 35.0 | 0.062 | 1.45 | | | |
| LPC4045ATED6R8M | 6.8 | | | 25.0 | 0.075 | 1.30 | | | |
| LPC4045ATED100K | 10 | K: ±10% | 40 | 23.5 | 0.10 | 1.02 | | | |
| LPC4045ATED150K | 15 | | | 18.5 | 0.15 | 0.84 | | | |
| LPC4045ATED220K | 22 | | | 14.0 | 0.21 | 0.70 | | | |
| LPC4045ATED330K | 33 | | | 12.0 | 0.41 | 0.52 | | | |
| LPC4045ATED470K | 47 | | | 10.5 | 0.52 | 0.46 | | | |
| LPC4045ATED680K | 68 | | | 8.0 | 0.67 | 0.40 | | | |
| LPC4045ATED101K | 100 | K: ±10% | 40 | 6.3 | 0.92 | 0.28 | | | |
| LPC4045ATED151K | 150 | | | 5.2 | 1.80 | 0.25 | | | |
| LPC4045ATED221K | 220 | | | 3.9 | 2.25 | 0.18 | | | |
| LPC4045ATED331K | 330 | | | 3.0 | 4.27 | 0.15 | | | |
| LPC4045ATED471K | 470 | | | 2.7 | 5.23 | 0.14 | | | |
| LPC4045ATED681K | 680 | | | 2.2 | 6.67 | 0.12 | | | |
| LPC4235TTEDR82M | 0.82 | M: ±20% | — | 146.6 | 0.017 | 3.34 | — | | |
| LPC4235TTED1R0M | 1.0 | | | 125.1 | 0.020 | 3.27 | | | |
| LPC4235TTED1R2M | 1.2 | | | 114.7 | 0.023 | 3.10 | | | |
| LPC4235TTED1R5M | 1.5 | | | 101.4 | 0.031 | 2.53 | | | |
| LPC4235TTED2R2M | 2.2 | | | 78.8 | 0.039 | 2.28 | | | |
| LPC4235TTED3R3M | 3.3 | | | 66.7 | 0.070 | 1.63 | | | |
| LPC4235TTED4R7M | 4.7 | 52.0 | 0.090 | 1.44 | | | | | |
| LPC4235TTED6R8M | 6.8 | 43.5 | 0.109 | 1.29 | | | | | |
| LPC4235TTED100K | 10 | K: ±10% | — | 33.5 | 0.190 | 0.91 | | | |
| LPC4235TTED150K | 15 | | | 29.1 | 0.230 | 0.87 | | | |
| LPC4235TTED220K | 22 | | | 21.7 | 0.366 | 0.69 | | | |
| LPC4235TTED330K | 33 | | | 13.9 | 0.542 | 0.52 | | | |
| LPC4235TTED470K | 47 | | | 12.0 | 0.688 | 0.47 | | | |
| LPC4235TTED680K | 68 | | | 12.7 | 1.30 | 0.34 | | | |
| LPC4235TTED101K | 100 | K: ±10% | — | 10.4 | 1.66 | 0.31 | | | |
| LPC4235TTED151K | 150 | | | 7.5 | 2.96 | 0.22 | | | |
| LPC4235TTED221K | 220 | | | 6.7 | 3.77 | 0.20 | | | |
| LPC9040NATED100M | 10 | | | M: ±20% | 40 | 25.0 | | 0.07 | 1.55 |
| LPC9040NATED150K | 15 | | | K: ±10% | 30 | 21.0 | 0.09 | 1.40 | |
| LPC9040NATED220K | 22 | | | | | 15.0 | 0.11 | 1.25 | |
| LPC9040NATED330K | 33 | 20 | 13.5 | | | 0.14 | 1.10 | | |
| LPC9040NATED470K | 47 | | 11.5 | | | 0.20 | 0.99 | | |
| LPC9040NATED680K | 68 | | 10.0 | | | 0.27 | 0.91 | | |
| LPC9040NATED101K | 100 | | 8.0 | | | 0.41 | 0.70 | | |
| LPC9040NATED151K | 150 | | 7.0 | 0.55 | 0.60 | | | | |
| LPC9040NATED221K | 220 | | 10 | 5.0 | 0.81 | 0.50 | | | |
| LPC9040NATED331K | 330 | 3.3 | | 1.86 | 0.29 | | | | |
| LPC9040NATED471K | 470 | 2.8 | | 2.07 | 0.22 | | | | |
| LPC9040NATED681K | 680 | 1.2 | | 2.65 | 0.14 | | | | |
| LPC10065ATEDR68M | 0.68 | M: ±20% | | 40 | 75.0 | 6.0 mΩ | 9.50 | L Meas. Freq. 1 MHz | |
| LPC10065ATED1R0M | 1.0 | | | | 65.0 | 7.0 mΩ | 9.00 | | |
| LPC10065ATED1R5M | 1.5 | | 50.0 | | 8.0 mΩ | 8.50 | | | |
| LPC10065ATED2R2M | 2.2 | | 40.0 | | 9.0 mΩ | 7.50 | | | |
| LPC10065ATED3R3M | 3.3 | | 30.0 | | 0.012 | 6.80 | | | |
| LPC10065ATED4R7M | 4.7 | | 25.0 | | 0.017 | 5.70 | | | |
| LPC10065ATED6R8M | 6.8 | 20.0 | 0.024 | 4.70 | | | | | |
| LPC10065ATED100K | 10 | K: ±10% | 20 | 15.0 | 0.036 | 3.90 | Q Meas. Freq. 2.52 MHz | | |
| LPC10065ATED150K | 15 | | | 12.0 | 0.054 | 3.15 | | | |
| LPC10065ATED220K | 22 | | | 9.0 | 0.080 | 2.60 | | | |
| LPC10065ATED330K | 33 | | | 8.0 | 0.120 | 2.30 | | | |
| LPC10065ATED470K | 47 | | | 15 | 6.0 | 0.175 | | | 1.79 |
| LPC10065ATED470K | 47 | | | | 6.0 | 0.175 | | | 1.79 |

applications and ratings (continued)

| Part Designation | Inductance (μH) | Inductance Tolerance | Quality Factor Minimum (MHz) | Self Resonant Frequency Minimum (MHz) | DC Resistance Maximum (Ω) | Allowable DC Current Maximum (Amps) | Measured Frequency (Hz) | |
|------------------|-----------------|----------------------|------------------------------|---------------------------------------|---------------------------|-------------------------------------|-------------------------|--------|
| LPC10065ATED680K | 68 | K: ±10% | 30 | 5.0 | 0.255 | 1.48 | 100 MHz | |
| LPC10065ATED101K | 100 | | | 4.0 | 0.380 | 1.22 | | |
| LPC10065ATED151K | 150 | | | 3.0 | 0.580 | 1.00 | | |
| LPC10065ATED221K | 220 | | | 2.5 | 0.850 | 0.82 | | |
| LPC10065ATED331K | 330 | | | 2.0 | 1.30 | 0.67 | | |
| LPC10065ATED471K | 470 | | | 1.5 | 1.85 | 0.57 | | |
| LPC10065ATED681K | 680 | | | 1.0 | 2.70 | 0.47 | | |
| LPC10065ATED102K | 1.0 mH | | | 0.95 | 4.00 | 0.38 | | |
| LPC10065ATED152K | 1.5 mH | | | 0.85 | 6.10 | 0.31 | | |
| LPC10065ATED222K | 2.2 mH | | | 0.70 | 9.00 | 0.26 | | |
| LPC10065ATED332K | 3.3 mH | | | 0.55 | 13.5 | 0.21 | | |
| LPC12065ATEDR68N | 0.68 | | | N: ±30% | 40 | 77.0 | | 5.0 mΩ |
| LPC12065ATED1R0N | 1.0 | 60.0 | 7.0 mΩ | | | 9.50 | | |
| LPC12065ATED1R5N | 1.5 | 47.0 | 8.0 mΩ | | | 9.00 | | |
| LPC12065ATED2R2N | 2.2 | 38.0 | 10.0 mΩ | | | 8.00 | | |
| LPC12065ATED3R3M | 3.3 | M: ±20% | 30 | 30.0 | 0.012 | 7.00 | | |
| LPC12065ATED4R7M | 4.7 | | | 24.0 | 0.016 | 6.50 | | |
| LPC12065ATED6R8M | 6.8 | | | 19.0 | 0.022 | 5.40 | | |
| LPC12065ATED100K | 10 | | | 15.0 | 0.031 | 4.50 | | |
| LPC12065ATED150K | 15 | K: ±10% | 20 | 12.0 | 0.046 | 3.63 | 100 KHz | |
| LPC12065ATED220K | 22 | | | 9.5 | 0.065 | 3.00 | | |
| LPC12065ATED330K | 33 | | | 7.5 | 0.093 | 2.40 | | |
| LPC12065ATED470K | 47 | | | 6.2 | 0.130 | 2.05 | | |
| LPC12065ATED680K | 68 | | | 4.9 | 0.182 | 1.70 | | |
| LPC12065ATED101K | 100 | | | 4.0 | 0.260 | 1.38 | | |
| LPC12065ATED151K | 150 | | 3.2 | 0.380 | 1.14 | | | |
| LPC12065ATED221K | 220 | | 2.5 | 0.540 | 0.94 | | | |
| LPC12065ATED331K | 330 | | 2.0 | 0.790 | 0.77 | | | |
| LPC12065ATED471K | 470 | | 1.6 | 1.08 | 0.65 | | | |
| LPC12065ATED681K | 680 | | 1.3 | 1.55 | 0.53 | | | |
| LPC12065ATED102K | 1.0 mH | | 1.0 | 2.21 | 0.44 | | | |
| LPC12065ATED152K | 1.5 mH | 0.83 | 3.20 | 0.35 | | | | |
| LPC12065ATED222K | 2.2 mH | 0.67 | 4.60 | 0.29 | | | | |
| LPC12065ATED332K | 3.3 mH | 0.53 | 6.60 | 0.23 | | | | |
| LPC12065ATED472K | 4.7 mH | 0.43 | 9.30 | 0.19 | | | | |
| LPC12065ATED682K | 6.8 mH | 0.34 | 13.2 | 0.16 | | | | |

environmental applications

Performance Characteristics

| Parameter | Maximum Δ L | Test Method |
|---------------------------|-------------|--|
| High Temperature Exposure | ±5% | LPC4045, LPC9040, LPC10065, LPC12065: +85°C ± 2°C, 500 hours LPC4235, LPC9040E: +125°C ± 2°C, 500 hours |
| Low Temperature Exposure | ±5% | -40°C, 500 hours |
| Moisture Exposure | ±5% | +40°C, 90 - 95% RH, 500 hours |
| Temperature Cycling | ±5% | -40°C (30 minutes)/+85°C (30 minutes), 100 cycles |

Surface Temperature Rise graphs and additional environmental applications can also be found at www.koaspeer.com

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

11/23/08



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.