



# Power choke coils

■ PCMB series.

## Features

- Low profile (3.0 mm max) and small size (7.3mm x6.6mm)
- Occupying small board spaces
- Low loss and high saturating current.



## Applications

- PCs, servers, power sources, mobile devices, flat screen TVs etc.

## Specifications

\*All made to order.

### Dimensions · Electrical characteristics



### Equivalent circuits



| Series name    | Size LxWxT (mm) | LO Inductance (uH) | DC resistance (mΩ) |      | Rated current (A) |         | Saturating current (A) |         | Packaging      |
|----------------|-----------------|--------------------|--------------------|------|-------------------|---------|------------------------|---------|----------------|
|                |                 |                    | Typical            | Max  | Typical           | Typical | Typical                | Typical |                |
| PCMB042T-XXXMS | 4.15x4.0x1.8    | 0.1                | 3.5                | 4    | 12                | 22      |                        |         | 2,000 pcs/reel |
|                |                 | 0.22               | 6                  | 6.6  | 9                 | 12.5    |                        |         |                |
|                |                 | 0.47               | 12.5               | 14   | 7                 | 9.5     |                        |         |                |
|                |                 | 1.0                | 24                 | 27   | 4.5               | 7       |                        |         |                |
|                |                 | 1.5                | 38                 | 46   | 4                 | 6       |                        |         |                |
|                |                 | 2.2                | 52                 | 58   | 3                 | 5       |                        |         |                |
|                |                 | 3.3                | 74                 | 87   | 2.5               | 4       |                        |         |                |
|                |                 | 0.68               | 11                 | 12   | 8.5               | 14      |                        |         |                |
|                |                 | 1.0                | 13                 | 14   | 7                 | 11      |                        |         |                |
|                |                 | 1.2                | 15                 | 16   | 6.5               | 11      |                        |         |                |
| PCMB053T-XXXMS | 4.7x4.85x2.8    | 1.5                | 18                 | 20   | 6                 | 10      |                        |         | 1,000 pcs/reel |
|                |                 | 2.2                | 29                 | 35   | 5.5               | 9       |                        |         |                |
|                |                 | 3.3                | 32                 | 39   | 5                 | 7       |                        |         |                |
|                |                 | 0.1                | 1.5                | 1.7  | 32.5              | 60      |                        |         |                |
|                |                 | 0.2                | 2.4                | 3.0  | 24                | 41      |                        |         |                |
|                |                 | 0.22               | 2.5                | 2.9  | 23                | 40      |                        |         |                |
|                |                 | 0.25               | 3.0                | 3.5  | 21                | 39      |                        |         |                |
|                |                 | 0.33               | 3.5                | 3.9  | 20                | 30      |                        |         |                |
|                |                 | 0.47               | 4.0                | 4.2  | 17.5              | 26      |                        |         |                |
|                |                 | 0.56               | 4.7                | 5    | 16.5              | 25.5    |                        |         |                |
| PCMB063T-XXXMS | 6.6x6.95x2.8    | 0.68               | 5                  | 5.5  | 15.5              | 25      |                        |         | 1,000 pcs/reel |
|                |                 | 0.82               | 6.7                | 8    | 13                | 24      |                        |         |                |
|                |                 | 0.9                | 9                  | 10   | 11                | 22      |                        |         |                |
|                |                 | 1.0                | 9                  | 10   | 11                | 22      |                        |         |                |
|                |                 | 1.2                | 10                 | 12   | 10                | 20      |                        |         |                |
|                |                 | 1.5                | 14                 | 15   | 9                 | 18      |                        |         |                |
|                |                 | 2.2                | 18                 | 20   | 8                 | 14      |                        |         |                |
|                |                 | 2.5                | 20                 | 22   | 7                 | 14      |                        |         |                |
|                |                 | 3.3                | 28                 | 30   | 6                 | 13.5    |                        |         |                |
|                |                 | 4.7                | 37                 | 40   | 5.5               | 10      |                        |         |                |
| PCMB065T-XXXMS | 6.6x7.05x4.8    | 6.8                | 54                 | 60   | 4.5               | 8       |                        |         | 1,000 pcs/reel |
|                |                 | 0.2                | 0.9                | 1.2  | 32                | 50      |                        |         |                |
|                |                 | 0.22               | 1.2                | 1.4  | 30                | 50      |                        |         |                |
|                |                 | 0.36               | 3.2                | 3.5  | 21                | 25      |                        |         |                |
|                |                 | 0.40               | 3.2                | 3.5  | 20                | 23      |                        |         |                |
|                |                 | 0.47               | 3.5                | 3.9  | 20                | 23      |                        |         |                |
|                |                 | 0.56               | 3.4                | 3.6  | 20                | 18      |                        |         |                |
|                |                 | 0.68               | 3.9                | 4.2  | 18                | 16      |                        |         |                |
|                |                 | 0.82               | 4.6                | 4.9  | 16.5              | 17      |                        |         |                |
|                |                 | 1.0                | 5.6                | 6.5  | 13                | 15      |                        |         |                |
| PCMB103T-XXXMS | 10x11.15x2.8    | 1.2                | 6                  | 7.5  | 11                | 12      |                        |         | 1,000 pcs/reel |
|                |                 | 1.5                | 6.7                | 7.5  | 11                | 12      |                        |         |                |
|                |                 | 2.2                | 11.2               | 12.5 | 8                 | 12      |                        |         |                |
|                |                 | 3.3                | 19.9               | 20.9 | 7                 | 8       |                        |         |                |
|                |                 | 4.7                | 23                 | 25   | 6.5               | 7       |                        |         |                |
|                |                 | 8.2                | 40                 | 43   | 5.5               | 5.5     |                        |         |                |
|                |                 | 0.36               | 1.3                | 1.6  | 23                | 28      |                        |         |                |
|                |                 | 0.47               | 2.1                | 2.5  | 23                | 26      |                        |         |                |
|                |                 | 0.56               | 2.4                | 3    | 22                | 24      |                        |         |                |
|                |                 | 0.68               | 2.9                | 3.4  | 21                | 23      |                        |         |                |
| PCMB103E-XXXMS | 10x11.15x3.3    | 1.0                | 5.3                | 6    | 13                | 18      |                        |         | 1,000 pcs/reel |
|                |                 | 1.5                | 6.5                | 7.5  | 13                | 20      |                        |         |                |
|                |                 | 2.2                | 8                  | 9    | 13                | 16      |                        |         |                |
|                |                 | 3.3                | 14.5               | 16   | 9                 | 14      |                        |         |                |
|                |                 | 4.7                | 20.5               | 22.5 | 7                 | 13      |                        |         |                |
|                |                 | 8.2                | 35                 | 45   | 5                 | 8.5     |                        |         |                |
|                |                 | 10                 | 50                 | 55   | 5                 | 7.5     |                        |         |                |
|                |                 | 1.0                | 2.7                | 3.0  | 20                | 27      |                        |         |                |

| Series name    | Size LxWxT (mm) | LO Inductance (uH) | DC resistance (mΩ) |      | Rated current (A) |         | Saturating current (A) |         | Packaging      |
|----------------|-----------------|--------------------|--------------------|------|-------------------|---------|------------------------|---------|----------------|
|                |                 |                    | Typical            | Max  | Typical           | Typical | Typical                | Typical |                |
| PCMB104T-XXXMS | 10x11x3.8       | 0.15               | 0.5                | 0.65 | 40                | 75      |                        |         | 1,000 pcs/reel |
|                |                 | 0.19               | 0.7                | 0.8  | 38                | 60      |                        |         |                |
|                |                 | 0.22               | 0.9                | 1.0  | 35                | 60      |                        |         |                |
|                |                 | 0.36               | 1.05               | 1.2  | 30                | 50      |                        |         |                |
|                |                 | 0.39               | 1.1                | 1.2  | 31                | 45      |                        |         |                |
|                |                 | 0.41               | 1.1                | 1.3  | 30                | 60      |                        |         |                |
|                |                 | 0.47               | 1.6                | 1.8  | 26                | 40      |                        |         |                |
|                |                 | 0.56               | 1.6                | 1.8  | 25                | 33      |                        |         |                |
|                |                 | 0.68               | 2.4                | 2.7  | 22                | 39      |                        |         |                |
|                |                 | 0.88               | 2.7                | 3.0  | 20                | 38      |                        |         |                |
|                |                 | 1.0                | 3                  | 3.3  | 18                | 28      |                        |         |                |
|                |                 | 1.5                | 3.8                | 4.2  | 16                | 32      |                        |         |                |
|                |                 | 1.8                | 4.5                | 5    | 15                | 15      |                        |         |                |
|                |                 | 2.0                | 5.2                | 5.8  | 14                | 14      |                        |         |                |
|                |                 | 2.2                | 6.0                | 7    | 12                | 18      |                        |         |                |
|                |                 | 3.3                | 10.8               | 11.8 | 10                | 16      |                        |         |                |
|                |                 | 4.7                | 17                 | 20   | 8.5               | 15      |                        |         |                |
|                |                 | 5.6                | 20                 | 23   | 7.5               | 14      |                        |         |                |
| 6.8            | 22.5            | 25                 | 6.5                | 9    |                   |         |                        |         |                |
| 10             | 27.5            | 30                 | 7.5                | 8.5  |                   |         |                        |         |                |
| 15             | 40              | 45                 | 6.25               | 7.0  |                   |         |                        |         |                |
| 22             | 60              | 66                 | 5.0                | 5.5  |                   |         |                        |         |                |
| 33             | 85              | 92                 | 4.4                | 5.0  |                   |         |                        |         |                |
| 47             | 130             | 145                | 3.3                | 3.5  |                   |         |                        |         |                |
| PCMB104E-XXXMS | 10x11x4.3       | 68                 | 178                | 195  | 2.3               | 3.0     |                        |         | 1,000 pcs/reel |
|                |                 | 1.0                | 2.7                | 3.2  | 22                | 34      |                        |         |                |
|                |                 | 2.2                | 5.8                | 7    | 14                | 16      |                        |         |                |
|                |                 | 3.3                | 11                 | 13.2 | 11                | 14.5    |                        |         |                |
|                |                 | 4.7                | 13.2               | 15   | 10                | 13      |                        |         |                |
|                |                 | 5.6                | 16                 | 18.5 | 8.5               | 10.5    |                        |         |                |
| 6.8            | 21.5            | 24                 | 7.5                | 9.5  |                   |         |                        |         |                |
| PCMB133E-XXXMS | 12.6x13.45x3.3  | 0.22               | 1.1                | 1.3  | 38                | 65      |                        |         | 500 pcs/reel   |
|                |                 | 0.33               | 1.3                | 1.5  | 36.5              | 62      |                        |         |                |
|                |                 | 0.39               | 1.1                | 1.3  | 38                | 65      |                        |         |                |
|                |                 | 0.47               | 1.7                | 2    | 32                | 55      |                        |         |                |
|                |                 | 0.56               | 1.8                | 2.2  | 29                | 51      |                        |         |                |
|                |                 | 0.62               | 1.8                | 2.2  | 29                | 51      |                        |         |                |
|                |                 | 0.68               | 2.3                | 2.5  | 28                | 49      |                        |         |                |
|                |                 | 1.0                | 3.3                | 3.5  | 24                | 40      |                        |         |                |
|                |                 | 1.5                | 5.1                | 5.5  | 19                | 35      |                        |         |                |
|                |                 | 2.2                | 7.2                | 8.0  | 16                | 29      |                        |         |                |
| 3.3            | 10              | 12                 | 12                 | 27   |                   |         |                        |         |                |

Rated current : the current that increases the temperature by 40°C  
 Saturating current : The current that reduces inductance by 30% (PCMB)  
 ※ Contact us for details.

## Part numbering system





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](mailto:org@eplast1.ru)

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