

# 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.

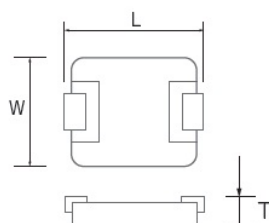
## Applications

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

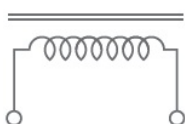
## Specifications

\*All made to order.

### Dimensions • Electrical characteristics



### Equivalent circuits



| Series Name        | Size<br>L x W x T<br>(mm)             | LO<br>Inductance<br>(uH) | DC resistance<br>(mOhm) |      | Rated<br>current (A) | Saturating<br>current(A) | Packaging         |
|--------------------|---------------------------------------|--------------------------|-------------------------|------|----------------------|--------------------------|-------------------|
|                    |                                       |                          | Typical                 | Max  |                      |                          |                   |
| PCMB042T-<br>XXXMS | 4.15±0.35<br>x 4.0 ±0.3<br>x 1.8±0.2  | 0.1                      | 3.5                     | 4    | 12                   | 22                       | 2,000<br>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-<br>XXXMS | 4.85±0.35<br>x 4.7 ±0.2<br>x 2.8±0.2  | 1.5                      | 18                      | 20   | 6                    | 10                       | 2,000<br>pcs/reel |
|                    |                                       | 2.2                      | 29                      | 35   | 5.5                  | 9                        |                   |
|                    |                                       | 3.3                      | 32                      | 38   | 5                    | 7                        |                   |
|                    |                                       | 0.1                      | 1.5                     | 1.7  | 32.5                 | 60                       |                   |
|                    |                                       | 0.2                      | 2.4                     | 3.0  | 24                   | 41                       |                   |
|                    |                                       | 0.22                     | 2.5                     | 2.8  | 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-<br>XXXMS | 6.95±0.35<br>x 6.6 ±0.2<br>x 2.8±0.2  | 0.68                     | 5                       | 5.5  | 15.5                 | 25                       | 1,000<br>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-<br>XXXMS | 7.05±0.35<br>x 6.6 ±0.2<br>x 4.8±0.2  | 6.8                      | 54                      | 60   | 4.5                  | 8                        | 1,000<br>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-<br>XXXMS | 11.15±0.35<br>x10.0 ±0.3<br>x 2.8±0.2 | 1.2                      | 6                       | 7.5  | 11                   | 12                       | 500<br>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-<br>XXXMS | 11.15±0.35<br>x10.0 ±0.3<br>x 3.3±0.2 | 1.0                      | 5.3                     | 6    | 13                   | 18                       | 500<br>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                       |                   |
|                    |                                       | 1.0                      | 2.7                     | 3.0  | 20                   | 27                       |                   |
|                    |                                       | 1.0                      | 2.7                     | 3.0  | 20                   | 27                       |                   |

| Series Name        | Size<br>L x W x T<br>(mm)            | LO<br>Inductance<br>(uH) | DC resistance<br>(mOhm) |      | Rated<br>current (A) | Saturating<br>current(A) | Packaging        |
|--------------------|--------------------------------------|--------------------------|-------------------------|------|----------------------|--------------------------|------------------|
|                    |                                      |                          | Typical                 | Max  |                      |                          |                  |
| PCMB104T-<br>XXXMS | 11.15±0.35<br>x10.0±0.3<br>x 3.8±0.2 | 0.15                     | 0.5                     | 0.65 | 40                   | 75                       | 500<br>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                       |                  |
| PCMB104E-<br>XXXMS | 10.85±0.35<br>x10.0±0.3<br>x 3.8±0.2 | 1.0                      | 3                       | 3.3  | 18                   | 28                       | 500<br>pcs/ reel |
|                    |                                      | 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                      |                  |
| PCMB104E-<br>XXXMS | 10.85±0.35<br>x10.0±0.3<br>x 4.3±0.2 | 15                       | 40                      | 45   | 6.25                 | 7.0                      | 500<br>pcs/ reel |
|                    |                                      | 22                       | 60                      | 66   | 5.0                  | 5.5                      |                  |
|                    |                                      | 33                       | 85                      | 92   | 4.4                  | 5.0                      |                  |
|                    |                                      | 47                       | 130                     | 145  | 3.3                  | 3.5                      |                  |
|                    |                                      | 68                       | 178                     | 195  | 2.3                  | 3.0                      |                  |
|                    |                                      | 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                     |                  |
| PCMB105T-<br>R47MS | 11.15±0.35<br>x10.0±0.3<br>x 4.8±0.2 | 6.8                      | 21.5                    | 24   | 7.5                  | 9.5                      | 500<br>pcs/ reel |
|                    |                                      | 0.47                     | 0.95                    | 1.1  | 36                   | 50                       |                  |
|                    |                                      | 0.22                     | 1.1                     | 1.3  | 38                   | 65                       |                  |
|                    |                                      | 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                       |                  |
| PCMB133E-<br>XXXMS | 13.45±0.35<br>x12.6±0.3<br>x 3.3±0.2 | 1.5                      | 5.1                     | 5.5  | 19                   | 35                       | 500<br>pcs/ reel |
|                    |                                      | 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

**PCMB 13\*\* - \*\*\* M S**

Part code

Size  
(063T=6.6\*7.3\*3.0mm, 104T=10\*11.5\*4.0mm,  
133E=12.6\*13.8\*3.5mm, 135T=12.6\*13.8\*5.0mm)

Inductance value (R56=0.56mH, R68=0.68mH)

Inductance tolerance M=±20%

Material: refer to the table for electrical characteristics

# AMEYA360

## Components Supply Platform

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