Choke Coils for PFC

Pin terminal type

PFC series

PFC3514QM
PFC3318QM
PFC3519QM
PFC3819QM
PFC4124QM
PFC2723ER
PFC3125ER
PFC3525ER
An attention matter on use
Please read this specifications before using this product by all means.

An attention matter on security
I undertake use with this product, and it is paid attention enough, and please design an attention matter safely.

⚠️ Attention on a design

- When you designs a base of an electric circuit.
  Please use size of the hole or pad which we recommend.
- Magnetic flux to leak out occurs. Please confirm it about influence of magnetic flux beforehand.
  There is fear to cause false movement of machinery.
- In a design of a base of an electric circuit, Please consider the next contents.
  In an applied safe standard.
  The trans and distance with other parts.
  The product is not quakeproof structure.
  Accordingly please do not add vibration and a shock to it.
  There is fear to lose a function.

⚠️ Attention on the handling

- Please do not use it when you let a product drop.
  The product produces possibility to lose a function.
- Please pay attention to the pin which had it pointed keenly.
  There is danger to injure.
- Please avoid the next place. The place that receives a drop of water, trash, the dust, foggy influence. The place where direct rays of the sun hits. There is fear to cause false movement of machinery.
- Please prohibit safekeeping and use at the next place. Environment to be accompanied with gas corrosion, salt, acid, alkali. There is fear to lose a function.
- When you carry the product on a base of an electric circuit.
  Please do not use a metal tool. Because impossible power is added to a product.
  There is fear to lose a function.

⚠️ Attention

- I considered the next matter, and we designed a product.
  Safe standard and power supply voltage and circuit drive condition, drive frequency and Duty ON-TIME.
  By those conditions, we decided structure and the turns number.
  Please avoid use in designed condition outside.
  There are destruction of a circuit part and fear of ignition.
- This product considered a characteristic of a component and a self temperature rise, and it was made.
  We select range of humidity as use temperature already.
  Please avoid use by range more than this.
  There are the damage and fear of ignition.
- Please avoid use in the environment next.
  The environment that trash and the dust stick to a product. There is fear to cause a fire.
- The products listed on this specification sheet are intended for use in general electronic equipment (AV equipment, telecommunications equipment, home appliances, amusement equipment, computer equipment, personal equipment, office equipment, measurement equipment, industrial robots) under a normal operation and use condition.
  There are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require a more stringent level of safety or reliability, or whose failure, malfunction or trouble could cause serious damage to society, person or property.
- If you intend to use the products in the applications listed below or if you have special requirements exceeding the range or conditions set forth in this catalog, please contact us.

  (1) Aerospace/Aviation equipment
  (2) Transportation equipment (cars, electric trains, ships, etc.)
  (3) Medical equipment
  (4) Power-generation control equipment
  (5) Atomic energy-related equipment
  (6) Seabed equipment applications
  (7) Transportation control equipment
  (8) Public information-processing equipment
  (9) Military equipment
  (10) Electric heating apparatus, burning equipment
  (11) Disaster prevention/crime prevention equipment
  (12) Safety equipment
  (13) Other applications that are not considered general-purpose applications

When designing your equipment even for general-purpose applications, you are kindly requested to take into consideration securing protection circuit/device or providing backup circuits in your equipment.
# Choke Coils for PFC

## PFC series

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<th>Page</th>
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</thead>
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<td>Overview</td>
<td>4</td>
</tr>
<tr>
<td>PFC3514QM (Height from the board: 15.5mm)</td>
<td>5</td>
</tr>
<tr>
<td>PFC3318QM (Height from the board: 20mm)</td>
<td>7</td>
</tr>
<tr>
<td>PFC3519QM (Height from the board: 20mm)</td>
<td>9</td>
</tr>
<tr>
<td>PFC3819QM (Height from the board: 20mm)</td>
<td>11</td>
</tr>
<tr>
<td>PFC4124QM (Height from the board: 25mm)</td>
<td>13</td>
</tr>
<tr>
<td>PFC2723ER (Height from the board: 25mm)</td>
<td>15</td>
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<tr>
<td>PFC3125ER (Height from the board: 27mm)</td>
<td>17</td>
</tr>
<tr>
<td>PFC3525ER (Height from the board: 27mm)</td>
<td>19</td>
</tr>
<tr>
<td>Specification Request Form</td>
<td>21</td>
</tr>
</tbody>
</table>

*All specifications are subject to change without notice.*
Choke Coils for PFC
Pin terminal type

Development Concept of the PFC Series

This small and thin PFC choke coil utilizes a power factor-improving circuit, which is suitable for the smaller and thinner electronic devices of recent years.

MATERIAL
Thanks to the development of an optimized core shape and materials, the choke coil has DC superimposition characteristics suitable for the design of various types of electronic devices.
- Optimized materials have been selected, and at the same time a small and thin PFC core with TDK's proprietary core shape has been developed.
- The product line-up has been expanded to cater for various types of electronic devices that need to become smaller and thinner.

MANUFACTURING METHOD
Since the PFC Series supports automatic winding, the product is of a high quality and can be manufactured stably.
- It is designed to support automatic winding, which enables a remarkable reduction in the loss generated to achieve a proficient in manual winding until stable production.
- In addition, the characteristic variations of the winding wire and creepage tape have largely been removed, stabilizing the transformer's characteristics.

OPTIMIZATION DESIGN
While the existing line-up of standard products remains available, new products can also be manufactured to meet customers' requests.
- Using design tools developed with TDK's comprehensive know-how, high-precision design has been achieved in a short period of time.
  1) For optimization design and high-quality stable production, customers can use a specification request form.
     - If you provide the necessary information in the form, you will receive the optimization design in a short time.
  2) TDK recommends design with a standard core gap (A L-value) for optimization and shorter trial and mass production lead time.

ENVIRONMENT
The PFC series is RoHS directive-compliant product.

• All specifications are subject to change without notice.
Choke Coils for PFC
Pin terminal type

Overview of the PFC Series

**FEATURES**
- A low height (15.5 to 27mm in height) is achieved.
- Large current is achieved in a small shape.

**APPLICATION**
AV equipment, digital consumer electronics

**PART NUMBER CONSTRUCTION**

<table>
<thead>
<tr>
<th>Series name</th>
<th>Core shape</th>
<th>Inductance code</th>
<th>Inductance tolerance</th>
<th>Rated Peak current code*1</th>
<th>Internal code</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3514QM</td>
<td>-350</td>
<td>350μH (35x10^3)</td>
<td>J ±5%</td>
<td>01 1A</td>
<td></td>
</tr>
<tr>
<td>PFC3518QM</td>
<td>-351</td>
<td>350μH (35x10^3)</td>
<td>K ±10%</td>
<td>07 7A</td>
<td></td>
</tr>
<tr>
<td>PFC3519QM</td>
<td>-352</td>
<td>350μH (35x10^3)</td>
<td>L ±15%</td>
<td>10 10A</td>
<td></td>
</tr>
<tr>
<td>PFC3819QM</td>
<td>-352</td>
<td>350μH (35x10^3)</td>
<td>M ±20%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**OPERATING TEMPERATURE RANGE, PACKAGE QUANTITY, PRODUCT WEIGHT**

<table>
<thead>
<tr>
<th>Type</th>
<th>Operating temperature*2</th>
<th>Storage temperature*3</th>
<th>Package quantity</th>
<th>Individual weight*4</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(°C)</td>
<td>(°C)</td>
<td>(pieces/box)</td>
<td>(g)</td>
</tr>
<tr>
<td>PFC3514QM</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>175</td>
<td>40.0</td>
</tr>
<tr>
<td>PFC3318QM</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>140</td>
<td>27.6</td>
</tr>
<tr>
<td>PFC3519QM</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>140</td>
<td>50.3</td>
</tr>
<tr>
<td>PFC3819QM</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>100</td>
<td>60.5</td>
</tr>
<tr>
<td>PFC4124QM</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>90</td>
<td>91.9</td>
</tr>
<tr>
<td>PFC2723ER</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>150</td>
<td>34.1</td>
</tr>
<tr>
<td>PFC3125ER</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>120</td>
<td>45.7</td>
</tr>
<tr>
<td>PFC3525ER</td>
<td>–30 to +120</td>
<td>–40 to +80</td>
<td>120</td>
<td>57.3</td>
</tr>
</tbody>
</table>

*1 The rounded-off value.
*2 Operating temperature range includes self-temperature rise.
*3 The Storage temperature range is for after the circuit board is mounted.
*4 Typical weight.


* All specifications are subject to change without notice.
PFC QM series

PFC3514QM Type

**SHAPE & DIMENSIONS**

Dimensions in mm

**RECOMMENDED LAND PATTERN**

Dimensions in mm

**CIRCUIT DIAGRAM**

Dimensions in mm

• All specifications are subject to change without notice.
**TRANSFORMERS**

**PFC QM series** **PFC3514QM Type**

### ELECTRICAL CHARACTERISTICS

#### CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz)</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current(^1) (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3514QM-351K04B-00</td>
<td>Through hole</td>
<td>65</td>
<td>100</td>
<td>350</td>
<td>3.7</td>
<td>10.0</td>
</tr>
<tr>
<td>PFC3514QM-281K05B-00</td>
<td>Through hole</td>
<td>65</td>
<td>125</td>
<td>280</td>
<td>4.6</td>
<td>9.8</td>
</tr>
<tr>
<td>PFC3514QM-231K06B-00</td>
<td>Through hole</td>
<td>65</td>
<td>150</td>
<td>230</td>
<td>5.5</td>
<td>9.6</td>
</tr>
</tbody>
</table>

\(^{1}\) The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

\(^{2}\) Equivalent measurement equipment may be used.

### INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

- **Inductance (μH)**
  - DC current (A): 0, 50, 100, 150, 200, 250, 300, 350, 400

- **Part Numbers:**
  - PFC3514QM-351K04B-00
  - PFC3514QM-281K05B-00
  - PFC3514QM-231K06B-00

- **Measurement equipment:**
  - Inductance: 4284A Agilent Technologies
  - DC bias characteristics: 4284A + 42841A Agilent Technologies

- **Manufacturer:** Agilent Technologies

- **DC current (A):** 0, 1, 2, 3, 4, 5, 6, 7, 8, 9

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*All specifications are subject to change without notice.*
TRANSFORMERS

PFC QM series

PFC3318QM Type

**SHAPE & DIMENSIONS**

![Dimensions Diagram](image)

**RECOMMENDED LAND PATTERN**

![Land Pattern Diagram](image)

**CIRCUIT DIAGRAM**

![Circuit Diagram](image)

*All specifications are subject to change without notice.*
PFC QM series  **PFC3318QM Type**

### ELECTRICAL CHARACTERISTICS

#### CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz) min.</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current(^1) (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3318QM-601K03B-00</td>
<td>Through hole</td>
<td>50</td>
<td>75</td>
<td>600</td>
<td>2.8</td>
<td>9.0</td>
</tr>
<tr>
<td>PFC3318QM-601K03E-00</td>
<td>Through hole</td>
<td>50</td>
<td>75</td>
<td>600</td>
<td>2.8</td>
<td>9.6</td>
</tr>
<tr>
<td>PFC3318QM-451K04B-00</td>
<td>Through hole</td>
<td>50</td>
<td>100</td>
<td>450</td>
<td>3.7</td>
<td>9.0</td>
</tr>
</tbody>
</table>

\(^1\) The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

### INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

- **PFC3318QM-601K03B-00**
- **PFC3318QM-601K03E-00**
- **PFC3318QM-451K04B-00**

• All specifications are subject to change without notice.
PFC QM series

PFC3519QM Type

**SHAPE & DIMENSIONS**

![Dimensions in mm](image)

**RECOMMENDED LAND PATTERN**

![Dimensions in mm](image)

**CIRCUIT DIAGRAM**

![Circuit Diagram](image)

- All specifications are subject to change without notice.
PFC QM series  **PFC3519QM Type**

### ELECTRICAL CHARACTERISTICS

#### CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz)</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current&lt;sup&gt;1&lt;/sup&gt; (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3519QM-451K04E-00</td>
<td>Through hole</td>
<td>50</td>
<td>100</td>
<td>450</td>
<td>3.7</td>
<td>10</td>
</tr>
<tr>
<td>PFC3519QM-301K06B-00</td>
<td>Through hole</td>
<td>50</td>
<td>150</td>
<td>300</td>
<td>5.5</td>
<td>9.8</td>
</tr>
<tr>
<td>PFC3519QM-231K07B-00</td>
<td>Through hole</td>
<td>50</td>
<td>200</td>
<td>230</td>
<td>7.4</td>
<td>9.6</td>
</tr>
</tbody>
</table>

<sup>1</sup> The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

<sup>2</sup> Equivalent measurement equipment may be used.

#### INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

![Graph showing inductance change vs. DC bias characteristics](image)

- All specifications are subject to change without notice.
PFC QM series

PFC3819QM Type

**SHAPE & DIMENSIONS**

![Diagram of shape and dimensions](image)

**RECOMMENDED LAND PATTERN**

![Recommended land pattern diagram](image)

**CIRCUIT DIAGRAM**

![Circuit diagram](image)

- All specifications are subject to change without notice.
PFC3819QM Type

### ELECTRICAL CHARACTERISTICS

#### CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz)</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current&lt;sup&gt;1&lt;/sup&gt; (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3819QM-301K06E-00</td>
<td>Through hole</td>
<td>50</td>
<td>150</td>
<td>300</td>
<td>5.5</td>
<td>9.8</td>
</tr>
<tr>
<td>PFC3819QM-231K07D-00</td>
<td>Through hole</td>
<td>50</td>
<td>200</td>
<td>230</td>
<td>7.4</td>
<td>9.6</td>
</tr>
<tr>
<td>PFC3819QM-181K09B-00</td>
<td>Through hole</td>
<td>50</td>
<td>250</td>
<td>180</td>
<td>6.8</td>
<td>9.5</td>
</tr>
<tr>
<td>PFC3819QM-151K11B-00</td>
<td>Through hole</td>
<td>50</td>
<td>300</td>
<td>150</td>
<td>11.1</td>
<td>9.8</td>
</tr>
</tbody>
</table>

Measurement equipment<sup>2</sup>

- Inductance: 4284A
- DC bias characteristics: 4284A + 42841A

<sup>1</sup>The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

<sup>2</sup>Equivalent measurement equipment may be used.

#### INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

![Graph showing inductance change vs. DC bias characteristics](image)

- PFC3819QM-301K06E-00
- PFC3819QM-231K07D-00
- PFC3819QM-181K09B-00
- PFC3819QM-151K11B-00

- All specifications are subject to change without notice.
PFC QM series

PFC4124QM Type

**SHAPE & DIMENSIONS**

Dimensions in mm

**RECOMMENDED LAND PATTERN**

Dimensions in mm

**CIRCUIT DIAGRAM**

• All specifications are subject to change without notice.
PFC QM series  PFC4124QM Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz)</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current¹ (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC4124QM-181K09D-00</td>
<td>Through hole</td>
<td>50</td>
<td>250</td>
<td>180</td>
<td>8.8</td>
<td>9.5</td>
</tr>
<tr>
<td>PFC4124QM-151K11D-00</td>
<td>Through hole</td>
<td>50</td>
<td>300</td>
<td>150</td>
<td>11.1</td>
<td>9.8</td>
</tr>
</tbody>
</table>

¹The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

²Equivalent measurement equipment may be used.

INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

Measurement item  | Product No. | Manufacturer |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Inductance</td>
<td>4284A</td>
<td>Agilent Technologies</td>
</tr>
<tr>
<td>DC bias characteristics</td>
<td>4284A + 4284A1</td>
<td>Agilent Technologies</td>
</tr>
</tbody>
</table>

• All specifications are subject to change without notice.
PFC ER series

PFC2723ER Type

**SHAPE & DIMENSIONS**

Dimensions in mm

**RECOMMENDED LAND PATTERN**

Dimensions in mm

**CIRCUIT DIAGRAM**

- All specifications are subject to change without notice.
PFC ER series  PFC2723ER Type

ELECTRICAL CHARACTERISTICS

CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz) min.</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current(^1) (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC2723ER-601K02B-00</td>
<td>Through hole</td>
<td>50</td>
<td>75</td>
<td>600</td>
<td>2.4</td>
<td>9.8</td>
</tr>
<tr>
<td>PFC2723ER-421K03B-00</td>
<td>Through hole</td>
<td>50</td>
<td>100</td>
<td>420</td>
<td>3.4</td>
<td>10.8</td>
</tr>
</tbody>
</table>

\(^1\) The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

\(^2\) Equivalent measurement equipment may be used.

INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

- All specifications are subject to change without notice.
PFC ER series

PFC3125ER Type

**SHAPE & DIMENSIONS**

![SHAPE & DIMENSIONS Diagram]

**RECOMMENDED LAND PATTERN**

![RECOMMENDED LAND PATTERN Diagram]

**CIRCUIT DIAGRAM**

![CIRCUIT DIAGRAM Diagram]

*All specifications are subject to change without notice.*
PFC ER series  PFC3125ER Type

**ELECTRICAL CHARACTERISTICS**

**CHARACTERISTICS SPECIFICATION TABLE**

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz) min.</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current&lt;sup&gt;1&lt;/sup&gt; (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3125ER-451K03E-00</td>
<td>Through hole</td>
<td>50</td>
<td>100</td>
<td>450</td>
<td>2.7</td>
<td>10.0</td>
</tr>
<tr>
<td>PFC3125ER-301K05B-00</td>
<td>Through hole</td>
<td>50</td>
<td>150</td>
<td>300</td>
<td>4.9</td>
<td>10.4</td>
</tr>
<tr>
<td>PFC3125ER-231K06B-00</td>
<td>Through hole</td>
<td>50</td>
<td>200</td>
<td>230</td>
<td>6.4</td>
<td>9.0</td>
</tr>
</tbody>
</table>

<sup>1</sup> Measurement equipment<sup>2</sup>

<table>
<thead>
<tr>
<th>Measurement item</th>
<th>Product No.</th>
<th>Manufacturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inductance</td>
<td>4284A</td>
<td>Agilent Technologies</td>
</tr>
<tr>
<td>DC bias characteristics</td>
<td>4284A + 42841A</td>
<td>Agilent Technologies</td>
</tr>
</tbody>
</table>

<sup>1</sup> The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

<sup>2</sup> Equivalent measurement equipment may be used.

**INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH**

- All specifications are subject to change without notice.
PFC ER series

PFC3525ER Type

### SHAPE & DIMENSIONS

Dimensions in mm

### RECOMMENDED LAND PATTERN

Dimensions in mm

### CIRCUIT DIAGRAM
## ELECTRICAL CHARACTERISTICS

### CHARACTERISTICS SPECIFICATION TABLE

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Mount method</th>
<th>Frequency (kHz)</th>
<th>PFC output power (W)</th>
<th>Inductance (μH)</th>
<th>Rated peak current&lt;sup&gt;₁&lt;/sup&gt; (A)</th>
<th>Turn ratio (Np/Npd)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFC3525ER-301K04E-00</td>
<td>Through hole</td>
<td>50</td>
<td>150</td>
<td>300</td>
<td>4.1</td>
<td>10.4</td>
</tr>
<tr>
<td>PFC3525ER-231K06E-00</td>
<td>Through hole</td>
<td>50</td>
<td>200</td>
<td>225</td>
<td>5.6</td>
<td>10.0</td>
</tr>
<tr>
<td>PFC3525ER-181K09B-00</td>
<td>Through hole</td>
<td>50</td>
<td>250</td>
<td>180</td>
<td>9.5</td>
<td>10.5</td>
</tr>
</tbody>
</table>

<sup>₁</sup> The rated peak current is determined by the triangular waveform current when the temperature increase is less than 40°C during continuous operation.

<sup>₂</sup> Equivalent measurement equipment may be used.

### INDUCTANCE CHANGE VS. DC BIAS CHARACTERISTICS GRAPH

![Inductance Change vs. DC Bias Characteristics Graph](image.png)
PFC Circuit Inductance Specification Request Form

1. Company name

Address

2. Department, applicant's name

Name: ____________________________
TEL/FAX: ____________________________
E-mail: ____________________________

Person in Charge from Sales Promotion Dep.: ____________________________
Recorded Date: __/__/___

Person in Charge from Sales Dep.: ____________________________
Recorded Date: __/__/___

Prototype No: ____________________________
Recorded Date: __/__/___

3. Circuit system (Fill in the ( ) square like this ( ) to make your selection.)

☐ Continuous mode ☐ Critical mode ☐ Interleave ☐ Other (__________)

4. Input specifications

AC input voltage: Rated (V) to (V) Operating range: (V) to (V)
Frequency (Hz) Minimum operating input voltage: (V) to (V)

5. Design condition

(1) Clock frequency (Fill in the ( ) square like this ( ) to make your selection.)

☐ Continuous mode (fixed frequency): (kHz)
☐ Critical mode (lowest frequency): (kHz)

(2) Output voltage

(3) Rated output power/Maximum peak power

(4) Minimum operating input voltage

(5) Overcurrent point condition (ex.: 130% in (3) Rated output power and (4) Minimum operating input voltage)

(6) Maximum temperature rise

ΔT (°C)

Condition in temperature evaluation (ex.: minimum input, rated load)

(7) Auxiliary winding (Fill in the ( ) square like this ( ) to make your selection.)

☐ Yes ☐ No

Number of windings

 Desired voltage value and current (V) / (mA)

 Necessity of insulation (Fill in the ( ) square like this ( ) to make your selection.)

☐ Functional insulation ☐ Reinforced insulation

(8) Circuit diagram (If you desire any pin number, attach a circuit diagram.)

☐ Yes ☐ No

6. Inductance value and saturated current value for reference

Inductance value: (μH) Saturated current value: (A)

7. Desired core size and external size

Core size: ____________________________
External size L: ____________________________ W: ____________________________ H (Height from the board): ____________________________ mm max.

8. IC expected to be used

Manufacturer name: ____________________________ Product No.: ____________________________

9. Production quantity information

Final set name: ____________________________ Desired price/Currency: ____________________________

Acceptance conditions of the above price (FCA CHN, CIP LA, DDP Paris etc.): ____________________________

Production volume: kM Production start period: ____________________________ Production place: ____________________________

Prototyping time: (ES1) (ES2) (PP1) (PP2) (MP1)

10. Sample information

Required sample quantity: ____________________________ pcs. Requested delivery time: ____________________________

11. Note company regulations, such as safe distance and dielectric voltage strength, if there are any.

12. If there are any other requests (priorities in the company, size or price, etc.) or alterable items, please provide a description.

TDK-EPC Corporation Magnetics Business Group, Business Promotions Dept.
3-9-1, Shibaura, Minato-ku Tokyo 108-0023, Japan TEL: 81-3-6852-7229, FAX: 81-3-6852-7159

• All specifications are subject to change without notice.
Click to View Pricing, Inventory, Delivery & Lifecycle Information:

**TDK:**

<table>
<thead>
<tr>
<th>PFC3525ER-181K09B-00</th>
<th>PFC3125ER-301K05B-00</th>
<th>PFC2723ER-601K02B-00</th>
<th>PFC3125ER-451K03E-00</th>
</tr>
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<tr>
<td>PFC3125ER-231K06B-00</td>
<td>PFC2723ER-421K03B-00</td>
<td>PFC3525ER-231K06E-00</td>
<td>PFC3525ER-301K04E-00</td>
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<td>PFC3514QM-231K06B-00</td>
<td>PFC3514QM-351K04B-00</td>
<td>PFC3318QM-601K03B-00</td>
<td>PFC3819QM-231K07D-00</td>
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<td>PFC3519QM-301K06B-00</td>
<td>PFC3819QM-301K06E-00</td>
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