

## SERIES

PTHFxxxR-SM  
PTKMxxxR-SM  
PTHF-SM  
PTKM-SM

RoHS  
CompliantTraditional  
First Quality

## Surface Mount Toroidal Power Chokes



Actual Size (Max.)  
(PTHF 100-50SM)

- **Excellent electromagnetic shielding** performance for commercial and industrial applications
- **For higher saturation levels** use Series PTHF-SM
- Current rating from 0.92 to 7.36 amps
- Inductance values from 10  $\mu$ H to 330  $\mu$ H

**Marking** API; ether PTHF or PTKM; remainder of part number.

Example: PTKM50R-50SM

API

PTHF

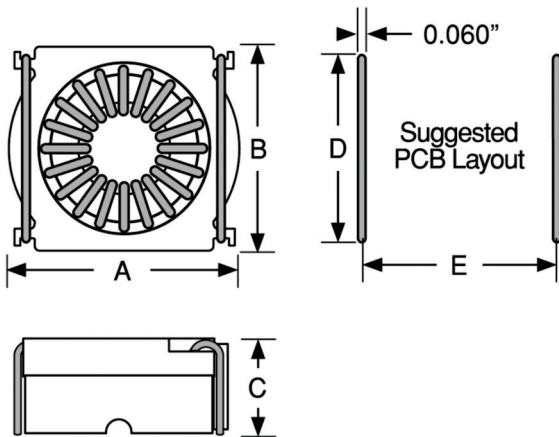
50R-50SM

**Notes** 1) Rated current is based on a 35°C temperature rise at an ambient temperature of 90°C. 2) Incremental current is the approximate value that will cause a percentage drop in inductance as indicated in the table.

| DASH NUMBER*                        | INDUCTANCE @ 1 kHz<br>( $\mu$ H) $\pm 10\%$ | CURRENT RATING ADC | Inc-I ADC<br>$\Delta L$ 10% | Inc-I ADC<br>$\Delta L$ 20% | DC RESISTANCE<br>MAXIMUM (OHMS) | SRF MINIMUM (MHz) |
|-------------------------------------|---------------------------------------------|--------------------|-----------------------------|-----------------------------|---------------------------------|-------------------|
| SERIES PTHF-SM HIGH SATURATION CORE |                                             |                    |                             |                             |                                 |                   |
| PTHF10-50SM                         | 10                                          | 7.36               | 6.00                        | 8.70                        | 0.01                            | 35.0              |
| PTHF25-50SM                         | 25                                          | 5.20               | 3.60                        | 5.30                        | 0.02                            | 10.0              |
| PTHF50-50SM                         | 50                                          | 3.93               | 2.00                        | 3.10                        | 0.04                            | 7.0               |
| PTHF75-50SM                         | 75                                          | 3.47               | 1.60                        | 2.50                        | 0.05                            | 5.0               |
| PTHF100-50SM                        | 100                                         | 3.14               | 1.50                        | 2.20                        | 0.06                            | 4.0               |
| PTHF150-50SM                        | 150                                         | 2.33               | 1.20                        | 1.80                        | 0.10                            | 3.0               |
| PTHF200-50SM                        | 200                                         | 1.97               | 1.00                        | 1.60                        | 0.14                            | 2.0               |
| PTHF250-50SM                        | 250                                         | 1.84               | 0.90                        | 1.40                        | 0.16                            | 1.5               |
| PTHF330-50SM                        | 330                                         | 1.69               | 0.80                        | 1.20                        | 0.19                            | 1.0               |
| PTHF10-40SM                         | 10                                          | 4.84               | 3.80                        | 5.70                        | 0.02                            | 35.0              |
| PTHF25-40SM                         | 25                                          | 3.38               | 2.20                        | 3.50                        | 0.04                            | 20.0              |
| PTHF50-40SM                         | 50                                          | 1.90               | 1.70                        | 2.50                        | 0.11                            | 13.0              |
| PTHF75-40SM                         | 75                                          | 1.69               | 1.30                        | 2.00                        | 0.14                            | 9.0               |
| PTHF100-40SM                        | 100                                         | 1.60               | 1.10                        | 1.70                        | 0.16                            | 6.0               |
| PTHF150-40SM                        | 150                                         | 1.45               | 0.90                        | 1.40                        | 0.19                            | 3.5               |
| PTHF200-40SM                        | 200                                         | 1.12               | 0.70                        | 1.10                        | 0.32                            | 3.0               |
| PTHF250-40SM                        | 250                                         | 1.05               | 0.70                        | 1.10                        | 0.36                            | 2.5               |
| PTHF10-30SM                         | 10                                          | 2.56               | 2.20                        | 3.40                        | 0.05                            | 35.0              |
| PTHF25-30SM                         | 25                                          | 2.16               | 1.40                        | 2.10                        | 0.07                            | 25.0              |
| PTHF50-30SM                         | 50                                          | 1.81               | 1.20                        | 1.30                        | 0.10                            | 10.0              |
| PTHF75-30SM                         | 75                                          | 1.62               | 0.80                        | 1.20                        | 0.13                            | 7.0               |
| PTHF100-30SM                        | 100                                         | 1.50               | 0.60                        | 1.00                        | 0.15                            | 6.0               |
| PTHF150-30SM                        | 150                                         | 1.33               | 0.60                        | 1.00                        | 0.19                            | 3.5               |
| PTHF200-30SM                        | 200                                         | 1.04               | 0.50                        | 0.70                        | 0.30                            | 3.0               |
| PTHF250-30SM                        | 250                                         | 0.96               | 0.50                        | 0.70                        | 0.36                            | 3.0               |
| PTHF10-180SM                        | 10                                          | 1.60               | 0.90                        | 1.40                        | 0.10                            | 35.0              |
| PTHF25-180SM                        | 25                                          | 1.33               | 0.60                        | 0.90                        | 0.15                            | 30.0              |
| PTHF50-180SM                        | 50                                          | 1.12               | 0.40                        | 0.60                        | 0.21                            | 10.0              |
| PTHF75-180SM                        | 75                                          | 0.99               | 0.30                        | 0.50                        | 0.26                            | 8.0               |
| PTHF100-180SM                       | 100                                         | 0.92               | 0.30                        | 0.40                        | 0.30                            | 6.0               |
| SERIES PTKM-SM FERROUS ALLOY CORE   |                                             |                    |                             |                             |                                 |                   |
| PTKM10-50SM                         | 10                                          | 7.36               | 1.70                        | 3.30                        | 0.01                            | 35.0              |
| PTKM25-50SM                         | 25                                          | 5.20               | 1.00                        | 1.90                        | 0.02                            | 10.0              |
| PTKM50-50SM                         | 50                                          | 3.93               | 0.70                        | 1.30                        | 0.04                            | 7.0               |
| PTKM75-50SM                         | 75                                          | 3.47               | 0.60                        | 1.10                        | 0.05                            | 5.0               |
| PTKM100-50SM                        | 100                                         | 3.14               | 0.50                        | 0.96                        | 0.06                            | 4.0               |
| PTKM150-50SM                        | 150                                         | 2.33               | 0.40                        | 0.78                        | 0.10                            | 3.0               |
| PTKM200-50SM                        | 200                                         | 1.97               | 0.35                        | 0.65                        | 0.14                            | 2.0               |
| PTKM250-50SM                        | 250                                         | 1.84               | 0.31                        | 0.59                        | 0.16                            | 1.5               |
| PTKM330-50SM                        | 330                                         | 1.69               | 0.27                        | 0.50                        | 0.19                            | 1.0               |
| PTKM10-40SM                         | 10                                          | 4.84               | 1.30                        | 2.50                        | 0.02                            | 35.0              |
| PTKM25-40SM                         | 25                                          | 3.38               | 0.70                        | 1.30                        | 0.04                            | 20.0              |
| PTKM50-40SM                         | 50                                          | 1.90               | 0.56                        | 1.00                        | 0.11                            | 13.0              |
| PTKM75-40SM                         | 75                                          | 1.69               | 0.45                        | 0.86                        | 0.14                            | 9.0               |
| PTKM100-40SM                        | 100                                         | 1.60               | 0.40                        | 0.76                        | 0.16                            | 6.0               |
| PTKM150-40SM                        | 150                                         | 1.45               | 0.33                        | 0.60                        | 0.19                            | 3.5               |
| PTKM200-40SM                        | 200                                         | 1.12               | 0.30                        | 0.56                        | 0.32                            | 3.0               |
| PTKM250-40SM                        | 250                                         | 1.05               | 0.25                        | 0.48                        | 0.36                            | 2.5               |
| PTKM10-30SM                         | 10                                          | 2.56               | 0.80                        | 1.60                        | 0.05                            | 35.0              |
| PTKM25-30SM                         | 25                                          | 2.16               | 0.50                        | 0.96                        | 0.07                            | 25.0              |
| PTKM50-30SM                         | 50                                          | 1.81               | 0.35                        | 0.68                        | 0.10                            | 10.0              |
| PTKM75-30SM                         | 75                                          | 1.62               | 0.28                        | 0.54                        | 0.13                            | 7.0               |
| PTKM100-30SM                        | 100                                         | 1.50               | 0.23                        | 0.50                        | 0.15                            | 6.0               |
| PTKM150-30SM                        | 150                                         | 1.33               | 0.20                        | 0.40                        | 0.19                            | 3.5               |
| PTKM200-30SM                        | 200                                         | 1.04               | 0.17                        | 0.34                        | 0.30                            | 3.0               |
| PTKM250-30SM                        | 250                                         | 0.96               | 0.15                        | 0.30                        | 0.36                            | 3.0               |
| PTKM10-180SM                        | 10                                          | 1.60               | 0.43                        | 0.86                        | 0.10                            | 35.0              |
| PTKM25-180SM                        | 25                                          | 1.33               | 0.25                        | 0.50                        | 0.15                            | 30.0              |
| PTKM50-180SM                        | 50                                          | 1.12               | 0.18                        | 0.35                        | 0.21                            | 10.0              |
| PTKM75-180SM                        | 75                                          | 0.99               | 0.15                        | 0.28                        | 0.26                            | 8.0               |
| PTKM100-180SM                       | 100                                         | 0.92               | 0.13                        | 0.25                        | 0.30                            | 6.0               |

\*Complete part # must include series # PLUS the dash #

For surface finish information, refer to [www.delevanfinishes.com](http://www.delevanfinishes.com)

**SERIES****PTHFxxxR-SM & PTKMxxxR-SM  
PTHF-SM & PTKM-SM**RoHS  
CompliantTraditional  
First Quality**Surface Mount Toroidal Power Chokes****PHYSICAL PARAMETERS**

| PART<br>NUMBER* | A Max. |       | B Max. |       | C Max. |       | D Nom. |       | E Nom. |       |
|-----------------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|                 | Inches | mm    | Inches | mm    | Inches | mm    | Inches | mm    | Inches | mm    |
| PT**10-50SM     | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**25-50SM     | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**50-50SM     | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**75-50SM     | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**100-50SM    | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**150-50SM    | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**200-50SM    | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**250-50SM    | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**330-50SM    | 0.700  | 17.78 | 0.670  | 17.02 | 0.400  | 10.16 | 0.600  | 15.24 | 0.600  | 15.24 |
| PT**10-40SM     | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**25-40SM     | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**50-40SM     | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**75-40SM     | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**100-40SM    | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**150-40SM    | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**200-40SM    | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**250-40SM    | 0.570  | 14.48 | 0.560  | 14.22 | 0.400  | 10.16 | 0.500  | 12.70 | 0.500  | 12.70 |
| PT**10-30SM     | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**25-30SM     | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**50-30SM     | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**75-30SM     | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**100-30SM    | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**150-30SM    | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**200-30SM    | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**250-30SM    | 0.440  | 11.18 | 0.440  | 11.18 | 0.400  | 10.16 | 0.400  | 10.16 | 0.400  | 10.16 |
| PT**10-180SM    | 0.340  | 8.636 | 0.340  | 8.64  | 0.300  | 7.62  | 0.300  | 7.62  | 0.300  | 7.62  |
| PT**25-180SM    | 0.340  | 8.636 | 0.340  | 8.64  | 0.300  | 7.62  | 0.300  | 7.62  | 0.300  | 7.62  |
| PT**50-180SM    | 0.340  | 8.636 | 0.340  | 8.64  | 0.300  | 7.62  | 0.300  | 7.62  | 0.300  | 7.62  |
| PT**75-180SM    | 0.340  | 8.636 | 0.340  | 8.64  | 0.300  | 7.62  | 0.300  | 7.62  | 0.300  | 7.62  |
| PT**100-180SM   | 0.340  | 8.636 | 0.340  | 8.64  | 0.300  | 7.62  | 0.300  | 7.62  | 0.300  | 7.62  |

\*\*Insert HF or KM for complete Part Number

\*Complete part # must include series # PLUS the dash #

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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

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