

Series PTHFxxxxR & PTKMxxxxR



PTHF & PTKM



Toroidal Power Chokes



Horizontal or Vertical Mounting

Excellent electromagnetic shielding

Applications Use Series PTHF for high DC saturation applications; use Series PTKM for low AC core loss applications.

Inductance tested at 1 KHz

DC Resistance at 25°C

Rated Idc based upon 40°C maximum rise from 90°C ambient with 0 Arms

Self Leads Solder coated along entire length

Mounting Toroids can be provided in a vertical or horizontal mount style. Suffix Part Number with "H" for horizontal mount.

dl Incremental Current is the value indicated in the table that will cause an approximate percentage drop in inductance

Marking tape marked with DELEVAN and part number

Physical Parameters on Next Page

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

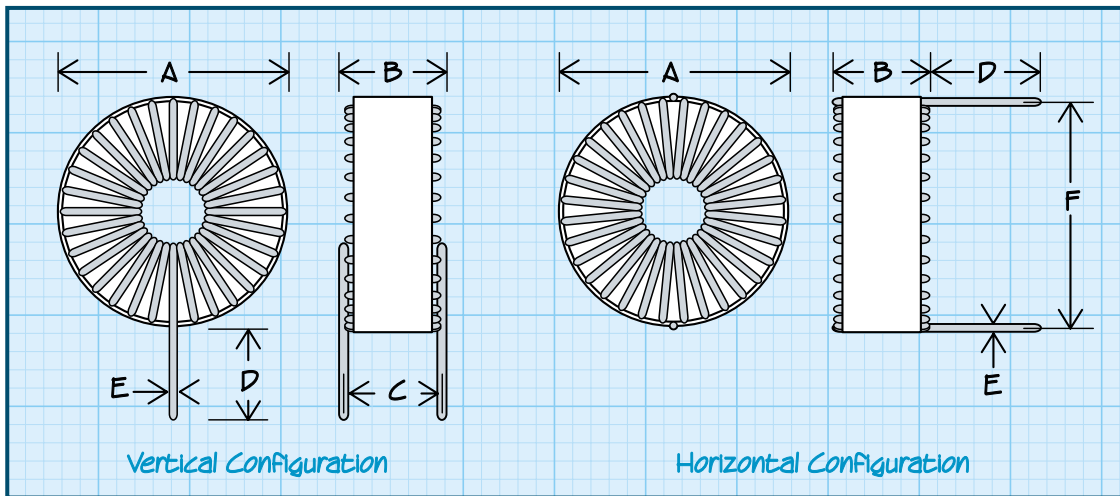
For further surface finish information, refer to TECHNICAL section of this catalog.

| PART NUMBER* | INDUCTANCE (uH) @ 1 KHz ± 10% | Rated Idc (Amps) | dl ADC ΔL 10% | dl ADC ΔL 20% | DC RESISTANCE MAXIMUM (Ohms) | SRF MINIMUM (MHz) |
|---|-------------------------------|------------------|---------------|---------------|------------------------------|-------------------|
| SERIES PTHF HIGH SATURATION CORE | | | | | | |
| PTHF10-50 | 10 | 7.36 | 6.0 | 8.7 | 0.010 | 35.0 |
| PTHF25-50 | 25 | 5.20 | 3.6 | 5.3 | 0.020 | 10.0 |
| PTHF50-50 | 50 | 3.93 | 2.0 | 3.1 | 0.035 | 7.0 |
| PTHF75-50 | 75 | 3.47 | 1.6 | 2.5 | 0.045 | 5.0 |
| PTHF100-50 | 100 | 3.14 | 1.5 | 2.2 | 0.055 | 4.0 |
| PTHF150-50 | 150 | 2.33 | 1.2 | 1.8 | 0.100 | 2.0 |
| PTHF200-50 | 200 | 1.97 | 1.0 | 1.6 | 0.140 | 1.7 |
| PTHF250-50 | 250 | 1.84 | 0.9 | 1.4 | 0.160 | 1.5 |
| PTHF330-50 | 330 | 1.69 | 0.8 | 1.2 | 0.190 | 1.0 |
| PTHF10-121 | 10 | 8.27 | 9.0 | 14.0 | 0.010 | 20.0 |
| PTHF25-121 | 25 | 6.34 | 7.0 | 10.5 | 0.017 | 8.0 |
| PTHF50-121 | 50 | 4.77 | 3.9 | 6.0 | 0.030 | 4.0 |
| PTHF75-121 | 75 | 3.90 | 3.9 | 5.8 | 0.045 | 3.0 |
| PTHF100-121 | 100 | 3.24 | 3.4 | 4.7 | 0.065 | 2.0 |
| PTHF150-121 | 150 | 2.68 | 3.3 | 4.8 | 0.095 | 1.5 |
| PTHF250-121 | 250 | 2.07 | 2.2 | 3.2 | 0.160 | 1.0 |
| PTHF10-59 | 10 | 14.50 | 15.0 | 20.0 | 0.008 | 20.0 |
| PTHF25-59 | 25 | 9.80 | 11.0 | 16.0 | 0.011 | 8.0 |
| PTHF50-59 | 50 | 6.90 | 8.3 | 12.0 | 0.022 | 4.0 |
| PTHF75-59 | 75 | 5.90 | 6.7 | 9.1 | 0.030 | 3.0 |
| PTHF100-59 | 100 | 4.90 | 6.5 | 8.2 | 0.044 | 2.0 |
| PTHF150-59 | 150 | 4.50 | 4.2 | 6.0 | 0.052 | 1.0 |
| PTHF250-59 | 250 | 3.50 | 4.0 | 5.6 | 0.088 | 1.0 |
| PTHF500-59 | 500 | 2.60 | 2.7 | 3.8 | 0.160 | 0.8 |
| PTHF750-59 | 750 | 2.10 | 1.8 | 2.7 | 0.240 | 0.6 |
| PTHF25-894 | 25 | 12.80 | 13.5 | 20.0 | 0.012 | 8.0 |
| PTHF50-894 | 50 | 9.90 | 10.8 | 15.2 | 0.016 | 4.0 |
| PTHF75-894 | 75 | 8.00 | 8.0 | 12.0 | 0.023 | 3.0 |
| PTHF100-894 | 100 | 8.00 | 7.1 | 10.6 | 0.023 | 2.0 |
| PTHF150-894 | 150 | 6.50 | 6.0 | 9.0 | 0.035 | 1.0 |
| PTHF250-894 | 250 | 5.00 | 4.6 | 6.8 | 0.060 | 1.0 |
| PTHF500-894 | 500 | 3.40 | 3.1 | 4.6 | 0.131 | 0.8 |
| PTHF750-894 | 750 | 3.00 | 2.7 | 4.0 | 0.160 | 0.6 |
| PTHF1000-894 | 1000 | 2.40 | 2.3 | 3.5 | 0.235 | 0.4 |
| SERIES PTKM FERROUS ALLOY CORE | | | | | | |
| PTKM10-50 | 10 | 7.36 | 1.70 | 3.30 | 0.010 | 35.0 |
| PTKM25-50 | 25 | 5.20 | 1.00 | 1.90 | 0.020 | 10.0 |
| PTKM50-50 | 50 | 3.93 | 0.70 | 1.30 | 0.035 | 7.0 |
| PTKM75-50 | 75 | 3.47 | 0.60 | 1.10 | 0.045 | 5.0 |
| PTKM100-50 | 100 | 3.14 | 0.50 | 0.96 | 0.055 | 4.0 |
| PTKM150-50 | 150 | 2.33 | 0.40 | 0.78 | 0.100 | 2.0 |
| PTKM200-50 | 200 | 1.97 | 0.35 | 0.65 | 0.140 | 1.7 |
| PTKM250-50 | 250 | 1.84 | 0.31 | 0.59 | 0.160 | 1.5 |
| PTKM330-50 | 330 | 1.69 | 0.27 | 0.50 | 0.190 | 1.0 |
| PTKM10-121 | 10 | 8.27 | 5.30 | 9.10 | 0.010 | 20.0 |
| PTKM25-121 | 25 | 6.34 | 3.30 | 5.70 | 0.017 | 8.0 |
| PTKM50-121 | 50 | 4.77 | 2.30 | 4.00 | 0.030 | 4.0 |
| PTKM75-121 | 75 | 3.90 | 1.80 | 3.10 | 0.045 | 3.0 |
| PTKM100-121 | 100 | 3.24 | 1.60 | 2.80 | 0.065 | 2.0 |
| PTKM150-121 | 150 | 2.68 | 1.30 | 2.20 | 0.095 | 1.5 |
| PTKM250-121 | 250 | 2.07 | 0.90 | 1.70 | 0.160 | 1.0 |
| PTKM10-59 | 10 | 14.50 | 7.60 | 13.00 | 0.008 | 20.0 |
| PTKM25-59 | 25 | 9.80 | 4.70 | 8.30 | 0.011 | 8.0 |
| PTKM50-59 | 50 | 6.90 | 3.30 | 5.70 | 0.022 | 4.0 |
| PTKM75-59 | 75 | 5.90 | 3.00 | 4.90 | 0.030 | 3.0 |
| PTKM100-59 | 100 | 4.90 | 2.40 | 4.20 | 0.044 | 2.0 |
| PTKM150-59 | 150 | 4.50 | 1.90 | 3.40 | 0.052 | 1.0 |
| PTKM250-59 | 250 | 3.50 | 1.50 | 2.70 | 0.088 | 1.0 |
| PTKM500-59 | 500 | 2.60 | 1.10 | 1.80 | 0.160 | 0.8 |
| PTKM750-59 | 750 | 2.10 | 0.90 | 1.60 | 0.240 | 0.6 |
| PTKM25-894 | 25 | 12.80 | 6.60 | 11.00 | 0.012 | 8.0 |
| PTKM50-894 | 50 | 9.90 | 4.20 | 7.40 | 0.016 | 4.0 |
| PTKM75-894 | 75 | 8.00 | 3.70 | 6.40 | 0.023 | 3.0 |
| PTKM100-894 | 100 | 8.00 | 3.50 | 6.00 | 0.023 | 2.0 |
| PTKM150-894 | 150 | 6.50 | 2.30 | 4.30 | 0.035 | 1.0 |
| PTKM250-894 | 250 | 5.00 | 1.90 | 3.20 | 0.060 | 1.0 |
| PTKM500-894 | 500 | 3.40 | 1.40 | 2.50 | 0.131 | 0.8 |
| PTKM750-894 | 750 | 3.00 | 1.20 | 2.10 | 0.160 | 0.6 |
| PTKM1000-894 | 1000 | 2.40 | 1.00 | 1.80 | 0.235 | 0.4 |

POWER INDUCTORS

Toroidal Power Chokes – Horizontal or Vertical Mount

POWER INDUCTORS



PHYSICAL PARAMETERS

* **Nominal Dimensions** Allow up to 10% of nominal for maximum size

** **Part Number** Insert HF of KM for complete part number, and suffix "H" for horizontal mounting

Electrical Information on Preceding Page

| PART NUMBER | A Nominal* | | B Nominal* | | C Typical | | D Nominal* | | E Nominal* | | F Nominal* | |
|--------------|------------|-------|------------|-------|-----------|-------|------------|-------|------------|------|------------|-------|
| | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm | Inches | mm |
| PT**10-50 | 0.625 | 15.88 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.036 | 0.91 | 0.600 | 15.24 |
| PT**25-50 | 0.625 | 15.88 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.032 | 0.81 | 0.600 | 15.24 |
| PT**50-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.028 | 0.71 | 0.600 | 15.24 |
| PT**75-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.025 | 0.63 | 0.600 | 15.24 |
| PT**100-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.025 | 0.63 | 0.600 | 15.24 |
| PT**150-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.020 | 0.51 | 0.600 | 15.24 |
| PT**200-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.018 | 0.46 | 0.600 | 15.24 |
| PT**250-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.018 | 0.46 | 0.600 | 15.24 |
| PT**330-50 | 0.625 | 15.87 | 0.300 | 7.62 | 0.250 | 6.35 | 0.500 | 12.70 | 0.018 | 0.46 | 0.600 | 15.24 |
| PT**10-121 | 0.820 | 20.83 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.040 | 1.02 | 0.780 | 19.81 |
| PT**25-121 | 0.820 | 20.83 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.040 | 1.02 | 0.780 | 19.81 |
| PT**50-121 | 0.820 | 20.83 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.036 | 0.91 | 0.780 | 19.81 |
| PT**75-121 | 0.820 | 20.83 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.032 | 0.81 | 0.780 | 19.81 |
| PT**100-121 | 0.820 | 20.83 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.028 | 0.71 | 0.780 | 19.81 |
| PT**150-121 | 0.850 | 21.59 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.025 | 0.63 | 0.780 | 19.81 |
| PT**250-121 | 0.850 | 21.59 | 0.400 | 10.16 | 0.320 | 8.13 | 0.500 | 12.70 | 0.023 | 0.58 | 0.780 | 19.81 |
| PT**10-59 | 1.100 | 27.94 | 0.475 | 12.06 | 0.370 | 9.40 | 0.500 | 12.70 | 0.051 | 1.30 | 1.050 | 26.67 |
| PT**25-59 | 1.100 | 27.94 | 0.475 | 12.06 | 0.370 | 9.40 | 0.500 | 12.70 | 0.051 | 1.30 | 1.050 | 26.67 |
| PT**50-59 | 1.100 | 27.94 | 0.475 | 12.06 | 0.370 | 9.40 | 0.500 | 12.70 | 0.045 | 1.14 | 1.050 | 26.67 |
| PT**75-59 | 1.100 | 27.94 | 0.475 | 12.06 | 0.370 | 9.40 | 0.500 | 12.70 | 0.040 | 1.02 | 1.050 | 26.67 |
| PT**100-59 | 1.100 | 27.94 | 0.475 | 12.06 | 0.370 | 9.40 | 0.500 | 12.70 | 0.036 | 0.91 | 1.050 | 26.67 |
| PT**150-59 | 1.100 | 27.94 | 0.475 | 12.06 | 0.450 | 11.43 | 0.500 | 12.70 | 0.036 | 0.91 | 1.050 | 26.67 |
| PT**250-59 | 1.150 | 29.21 | 0.475 | 12.06 | 0.450 | 11.43 | 0.500 | 12.70 | 0.032 | 0.81 | 1.050 | 26.67 |
| PT**500-59 | 1.150 | 29.21 | 0.475 | 12.06 | 0.450 | 11.43 | 0.500 | 12.70 | 0.028 | 0.71 | 1.050 | 26.67 |
| PT**750-59 | 1.150 | 29.21 | 0.475 | 12.06 | 0.450 | 11.43 | 0.500 | 12.70 | 0.025 | 0.63 | 1.050 | 26.67 |
| PT**25-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.051 | 1.30 | 1.250 | 31.75 |
| PT**50-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.051 | 1.30 | 1.250 | 31.75 |
| PT**75-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.051 | 1.30 | 1.250 | 31.75 |
| PT**100-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.051 | 1.30 | 1.250 | 31.75 |
| PT**150-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.045 | 1.14 | 1.250 | 31.75 |
| PT**250-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.040 | 1.02 | 1.250 | 31.75 |
| PT**500-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.032 | 0.81 | 1.250 | 31.75 |
| PT**750-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.032 | 0.81 | 1.250 | 31.75 |
| PT**1000-894 | 1.300 | 33.02 | 0.650 | 16.51 | 0.600 | 15.24 | 0.750 | 19.05 | 0.028 | 0.71 | 1.250 | 31.75 |