

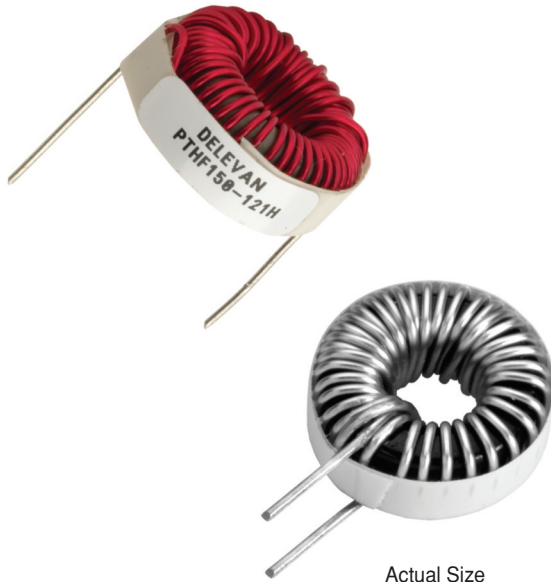
# SERIES

PTHFxxxxR  
PTKMxxxxR  
PTHF  
PTKM

RoHS  
Compliant

Traditional  
First Quality

## Toroidal Power Chokes



Actual Size

### 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.

### 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

DELEVAN and part number.

Example: PTHF50R-121

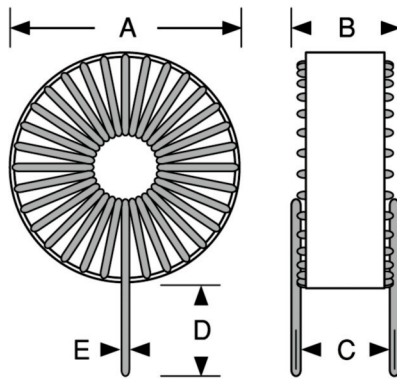
DELEVAN PTHF50R-121

### Physical Parameters on Next Page

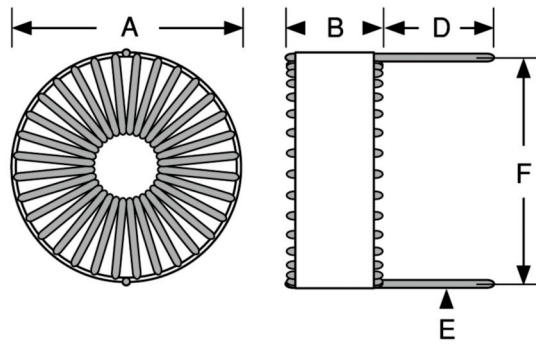
\*Complete part # must include series # PLUS the dash #

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

| PART NUMBER*                     | INDUCTANCE (μH)<br>@ 1 kHz ±10% | RATED IDC (AMPS) | ΔL dl ADC<br>@ 10% | ΔL dl ADC<br>@ 20% | DC RESISTANCE<br>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               | 0.008                           | 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              | 0.008                           | 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               |

**SERIES****PTHFxxxxR & PTKMxxxxR**  
**PTHF & PTKM**RoHS  
CompliantTraditional  
First Quality**Toroidal Power Chokes – Horizontal or Vertical Mount**

Vertical Configuration



Horizontal Configuration

**PHYSICAL PARAMETERS**\* **Nominal Dimensions** Allow up to 10% of nominal for maximum size\*\* **Part Number** Insert HF or KM for complete part number, and suffix "H" for horizontal mounting*Electrical Information on Preceding Page*

| PART<br>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 | 0.064      | 1.3  | 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 |