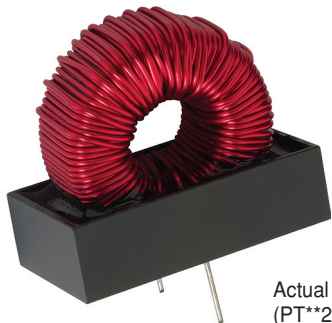


# SERIES

PTHFxxxxR-VM  
PTKMxxxxR-VM  
PTHF-VM  
PTKM-VM



## Vertical Toroidal Power Chokes



Actual Size  
(PT\*\*25-894VM)

- **Excellent electromagnetic shielding** performance for commercial and industrial applications
- **Cost-effective** design
- **For higher saturation levels**  
use Series PTHF-VM
- Current rating from 1.69 to 14.5 amps
- Inductance values from 10  $\mu$ H to 1000  $\mu$ H

### Physical Parameters on Next Page

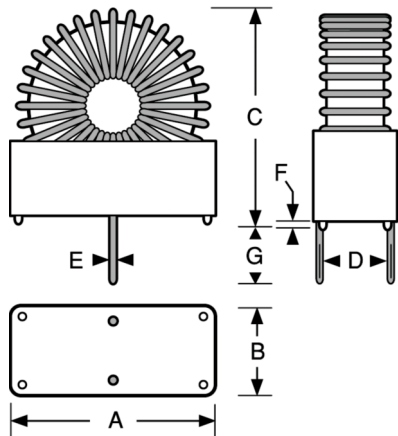
#### Notes

- 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.

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

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

| PART NUMBER*                        | INDUCTANCE ( $\mu$ H)<br>@ 1 kHz $\pm 10\%$ | RATED IDC (AMPS) | $\Delta L$ dI/dC<br>10% | $\Delta L$ dI/dC<br>20% | DC RESISTANCE<br>MAXIMUM (OHMS) | SRF MINIMUM (MHz) |
|-------------------------------------|---------------------------------------------|------------------|-------------------------|-------------------------|---------------------------------|-------------------|
| SERIES PTHF-VM HIGH SATURATION CORE |                                             |                  |                         |                         |                                 |                   |
| PTHF10-50VM                         | 10                                          | 7.36             | 6.00                    | 8.70                    | 0.010                           | 35.0              |
| PTHF25-50VM                         | 25                                          | 5.20             | 3.60                    | 5.30                    | 0.020                           | 10.0              |
| PTHF50-50VM                         | 50                                          | 3.93             | 2.00                    | 3.10                    | 0.035                           | 4.0               |
| PTHF75-50VM                         | 75                                          | 3.47             | 1.60                    | 2.50                    | 0.045                           | 3.5               |
| PTHF100-50VM                        | 100                                         | 3.14             | 1.50                    | 2.20                    | 0.055                           | 2.5               |
| PTHF150-50VM                        | 150                                         | 2.33             | 1.20                    | 1.80                    | 0.100                           | 1.5               |
| PTHF200-50VM                        | 200                                         | 1.97             | 1.00                    | 1.60                    | 0.140                           | 1.3               |
| PTHF250-50VM                        | 250                                         | 1.84             | 0.90                    | 1.40                    | 0.160                           | 1.0               |
| PTHF330-50VM                        | 330                                         | 1.69             | 0.80                    | 1.20                    | 0.190                           | 0.8               |
| PTHF10-121VM                        | 10                                          | 8.27             | 9.00                    | 14.00                   | 0.010                           | 20.0              |
| PTHF25-121VM                        | 25                                          | 6.34             | 7.00                    | 10.50                   | 0.017                           | 6.5               |
| PTHF50-121VM                        | 50                                          | 4.77             | 3.90                    | 6.00                    | 0.030                           | 3.5               |
| PTHF75-121VM                        | 75                                          | 3.90             | 3.90                    | 5.80                    | 0.045                           | 2.5               |
| PTHF100-121VM                       | 100                                         | 3.24             | 3.40                    | 4.70                    | 0.065                           | 2.0               |
| PTHF150-121VM                       | 150                                         | 2.68             | 3.30                    | 4.80                    | 0.095                           | 1.5               |
| PTHF250-121VM                       | 250                                         | 2.07             | 2.20                    | 3.20                    | 0.160                           | 1.0               |
| PTHF10-59VM                         | 10                                          | 14.50            | 15.00                   | 20.00                   | 0.008                           | 10.0              |
| PTHF25-59VM                         | 25                                          | 9.80             | 11.00                   | 16.00                   | 0.011                           | 8.0               |
| PTHF50-59VM                         | 50                                          | 6.90             | 8.30                    | 12.00                   | 0.022                           | 3.5               |
| PTHF75-59VM                         | 75                                          | 5.90             | 6.70                    | 9.10                    | 0.030                           | 2.5               |
| PTHF100-59VM                        | 100                                         | 4.90             | 6.50                    | 8.20                    | 0.044                           | 2.0               |
| PTHF150-59VM                        | 150                                         | 4.50             | 4.20                    | 6.00                    | 0.052                           | 1.0               |
| PTHF250-59VM                        | 250                                         | 3.50             | 4.00                    | 5.60                    | 0.088                           | 0.9               |
| PTHF500-59VM                        | 500                                         | 2.60             | 2.70                    | 3.80                    | 0.160                           | 0.7               |
| PTHF750-59VM                        | 750                                         | 2.10             | 1.80                    | 2.70                    | 0.240                           | 0.5               |
| PTHF25-894VM                        | 25                                          | 12.80            | 13.50                   | 20.00                   | 0.012                           | 8.0               |
| PTHF50-894VM                        | 50                                          | 9.90             | 10.80                   | 15.20                   | 0.016                           | 4.0               |
| PTHF75-894VM                        | 75                                          | 8.00             | 8.00                    | 12.00                   | 0.023                           | 2.5               |
| PTHF100-894VM                       | 100                                         | 8.00             | 7.10                    | 10.60                   | 0.023                           | 2.0               |
| PTHF150-894VM                       | 150                                         | 6.50             | 6.00                    | 9.00                    | 0.035                           | 1.0               |
| PTHF250-894VM                       | 250                                         | 5.00             | 4.60                    | 6.80                    | 0.060                           | 0.9               |
| PTHF500-894VM                       | 500                                         | 3.40             | 3.10                    | 4.60                    | 0.131                           | 0.7               |
| PTHF750-894VM                       | 750                                         | 3.00             | 2.70                    | 4.00                    | 0.160                           | 0.6               |
| PTHF1000-894VM                      | 1000                                        | 2.40             | 2.30                    | 3.50                    | 0.235                           | 0.4               |
| SERIES PTKM-VM FERROUS ALLOY CORE   |                                             |                  |                         |                         |                                 |                   |
| PTKM10-50VM                         | 10                                          | 7.36             | 1.70                    | 3.30                    | 0.010                           | 35.0              |
| PTKM25-50VM                         | 25                                          | 5.20             | 1.00                    | 1.90                    | 0.020                           | 10.0              |
| PTKM50-50VM                         | 50                                          | 3.93             | 0.70                    | 1.30                    | 0.035                           | 4.0               |
| PTKM75-50VM                         | 75                                          | 3.47             | 0.60                    | 1.10                    | 0.045                           | 3.5               |
| PTKM100-50VM                        | 100                                         | 3.14             | 0.50                    | 0.96                    | 0.055                           | 2.5               |
| PTKM150-50VM                        | 150                                         | 2.33             | 0.40                    | 0.78                    | 0.100                           | 1.5               |
| PTKM200-50VM                        | 200                                         | 1.97             | 0.35                    | 0.65                    | 0.140                           | 1.3               |
| PTKM250-50VM                        | 250                                         | 1.84             | 0.31                    | 0.59                    | 0.160                           | 1.0               |
| PTKM330-50VM                        | 330                                         | 1.69             | 0.27                    | 0.50                    | 0.190                           | 0.8               |
| PTKM10-121VM                        | 10                                          | 8.27             | 5.30                    | 9.10                    | 0.010                           | 20.0              |
| PTKM25-121VM                        | 25                                          | 6.34             | 3.30                    | 5.70                    | 0.017                           | 6.5               |
| PTKM50-121VM                        | 50                                          | 4.77             | 2.30                    | 4.00                    | 0.030                           | 3.5               |
| PTKM75-121VM                        | 75                                          | 3.90             | 1.80                    | 3.10                    | 0.045                           | 2.5               |
| PTKM100-121VM                       | 100                                         | 3.24             | 1.60                    | 2.80                    | 0.065                           | 2.0               |
| PTKM150-121VM                       | 150                                         | 2.68             | 1.30                    | 2.20                    | 0.095                           | 1.5               |
| PTKM250-121VM                       | 250                                         | 2.07             | 0.90                    | 1.70                    | 0.160                           | 1.0               |
| PTKM10-59VM                         | 10                                          | 14.50            | 7.60                    | 13.00                   | 0.008                           | 10.0              |
| PTKM25-59VM                         | 25                                          | 9.80             | 4.70                    | 8.30                    | 0.011                           | 8.0               |
| PTKM50-59VM                         | 50                                          | 6.90             | 3.30                    | 5.70                    | 0.022                           | 3.5               |
| PTKM75-59VM                         | 75                                          | 5.90             | 3.00                    | 4.90                    | 0.030                           | 2.5               |
| PTKM100-59VM                        | 100                                         | 4.90             | 2.40                    | 4.20                    | 0.044                           | 2.0               |
| PTKM150-59VM                        | 150                                         | 4.50             | 1.90                    | 3.40                    | 0.052                           | 1.0               |
| PTKM250-59VM                        | 250                                         | 3.50             | 1.50                    | 2.70                    | 0.088                           | 0.9               |
| PTKM500-59VM                        | 500                                         | 2.60             | 1.10                    | 1.80                    | 0.160                           | 0.7               |
| PTKM750-59VM                        | 750                                         | 2.10             | 0.90                    | 1.60                    | 0.240                           | 0.5               |
| PTKM25-894VM                        | 25                                          | 12.80            | 6.60                    | 11.00                   | 0.012                           | 8.0               |
| PTKM50-894VM                        | 50                                          | 9.90             | 4.20                    | 7.40                    | 0.016                           | 4.0               |
| PTKM75-894VM                        | 75                                          | 8.00             | 3.70                    | 6.40                    | 0.023                           | 2.5               |
| PTKM100-894VM                       | 100                                         | 8.00             | 3.50                    | 6.00                    | 0.023                           | 2.0               |
| PTKM150-894VM                       | 150                                         | 6.50             | 2.30                    | 4.30                    | 0.035                           | 1.0               |
| PTKM250-894VM                       | 250                                         | 5.00             | 1.90                    | 3.20                    | 0.060                           | 0.9               |
| PTKM500-894VM                       | 500                                         | 3.40             | 1.40                    | 2.50                    | 0.131                           | 0.7               |
| PTKM750-894VM                       | 750                                         | 3.00             | 1.20                    | 2.10                    | 0.160                           | 0.6               |
| PTKM1000-894VM                      | 1000                                        | 2.40             | 1.00                    | 1.80                    | 0.235                           | 0.4               |

**SERIES****PTHFxxxxR-VM & PTKMxxxxR-VM  
PTHF-VM & PTKM-VM**RoHS  
CompliantTraditional  
First Quality**Vertical Toroidal Power Chokes****Physical Parameters**

|                                | Inches        | Millimeters |
|--------------------------------|---------------|-------------|
| F (Standoffs)                  | 0.025         | 0.635       |
| G (Lead length below standoff) | 0.250 ± 0.062 | 6.35 ± 1.57 |

Other dimensions in table below

*Electrical Information on Preceding Page*

| PART<br>NUMBER | A Nominal |       | B Nominal |       | C Nominal |       | D Nominal |       | E Nominal |       |
|----------------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|-----------|-------|
|                | Inches    | mm    | Inches    | mm    | Inches    | mm    | Inches    | mm    | Inches    | mm    |
| PT**10-50VM    | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.036     | 0.914 |
| PT**25-50VM    | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.032     | 0.813 |
| PT**50-50VM    | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.028     | 0.711 |
| PT**75-50VM    | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.025     | 0.635 |
| PT**100-50VM   | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.025     | 0.635 |
| PT**150-50VM   | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.020     | 0.508 |
| PT**200-50VM   | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.018     | 0.457 |
| PT**250-50VM   | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.018     | 0.457 |
| PT**330-50VM   | 0.750     | 19.05 | 0.400     | 10.16 | 0.775     | 19.68 | 0.250     | 6.350 | 0.018     | 0.457 |
| PT**10-121VM   | 0.800     | 20.32 | 0.500     | 12.70 | 0.950     | 24.13 | 0.350     | 8.890 | 0.040     | 1.016 |
| PT**25-121VM   | 0.800     | 20.32 | 0.500     | 12.70 | 0.950     | 24.13 | 0.350     | 8.890 | 0.040     | 1.016 |
| PT**50-121VM   | 0.800     | 20.32 | 0.500     | 12.70 | 0.950     | 24.13 | 0.350     | 8.890 | 0.036     | 0.914 |
| PT**75-121VM   | 0.800     | 20.32 | 0.500     | 12.70 | 0.950     | 24.13 | 0.350     | 8.890 | 0.032     | 0.813 |
| PT**100-121VM  | 0.800     | 20.32 | 0.500     | 12.70 | 0.975     | 24.76 | 0.350     | 8.890 | 0.028     | 0.711 |
| PT**150-121VM  | 0.800     | 20.32 | 0.500     | 12.70 | 0.975     | 24.76 | 0.350     | 8.890 | 0.025     | 0.635 |
| PT**250-121VM  | 0.800     | 20.32 | 0.500     | 12.70 | 0.975     | 24.76 | 0.350     | 8.890 | 0.023     | 0.584 |
| PT**10-59VM    | 1.210     | 30.73 | 0.685     | 17.40 | 1.175     | 29.84 | 0.400     | 10.16 | 0.051     | 1.295 |
| PT**25-59VM    | 1.210     | 30.73 | 0.685     | 17.40 | 1.175     | 29.84 | 0.400     | 10.16 | 0.051     | 1.295 |
| PT**50-59VM    | 1.210     | 30.73 | 0.685     | 17.40 | 1.175     | 29.84 | 0.400     | 10.16 | 0.045     | 1.143 |
| PT**75-59VM    | 1.210     | 30.73 | 0.685     | 17.40 | 1.175     | 29.84 | 0.400     | 10.16 | 0.040     | 1.016 |
| PT**100-59VM   | 1.210     | 30.73 | 0.685     | 17.40 | 1.175     | 29.84 | 0.400     | 10.16 | 0.036     | 0.914 |
| PT**150-59VM   | 1.210     | 30.73 | 0.685     | 17.40 | 1.175     | 29.84 | 0.400     | 10.16 | 0.036     | 0.914 |
| PT**250-59VM   | 1.210     | 30.73 | 0.685     | 17.40 | 1.250     | 31.75 | 0.400     | 10.16 | 0.032     | 0.813 |
| PT**500-59VM   | 1.210     | 30.73 | 0.685     | 17.40 | 1.250     | 31.75 | 0.400     | 10.16 | 0.028     | 0.711 |
| PT**750-59VM   | 1.210     | 30.73 | 0.685     | 17.40 | 1.250     | 31.75 | 0.400     | 10.16 | 0.025     | 0.635 |
| PT**25-894VM   | 1.450     | 36.83 | 0.825     | 20.95 | 1.400     | 35.56 | 0.600     | 15.24 | 0.051     | 1.295 |
| PT**50-894VM   | 1.450     | 36.83 | 0.825     | 20.95 | 1.400     | 35.56 | 0.600     | 15.24 | 0.051     | 1.295 |
| PT**75-894VM   | 1.450     | 36.83 | 0.825     | 20.95 | 1.400     | 35.56 | 0.600     | 15.24 | 0.051     | 1.295 |
| PT**100-894VM  | 1.450     | 36.83 | 0.825     | 20.95 | 1.400     | 35.56 | 0.600     | 15.24 | 0.051     | 1.295 |
| PT**150-894VM  | 1.450     | 36.83 | 0.825     | 20.95 | 1.400     | 35.56 | 0.600     | 15.24 | 0.045     | 1.143 |
| PT**250-894VM  | 1.450     | 36.83 | 0.825     | 20.95 | 1.400     | 35.56 | 0.600     | 15.24 | 0.040     | 1.016 |
| PT**500-894VM  | 1.450     | 36.83 | 0.825     | 20.95 | 1.475     | 37.46 | 0.600     | 15.24 | 0.032     | 0.813 |
| PT**750-894VM  | 1.450     | 36.83 | 0.825     | 20.95 | 1.475     | 37.46 | 0.600     | 15.24 | 0.032     | 0.813 |
| PT**1000-894VM | 1.450     | 36.83 | 0.825     | 20.95 | 1.475     | 37.46 | 0.600     | 15.24 | 0.028     | 0.711 |

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

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

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

# Mouser Electronics

Authorized Distributor

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## API Delevan:

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[PTHF250-50VM](#) [PTHF330-50VM](#) [PTHF10-121VM](#) [PTHF25-121VM](#) [PTHF50-121VM](#) [PTHF75-121VM](#) [PTHF100-121VM](#) [PTHF150-121VM](#) [PTHF250-121VM](#) [PTHF10-59VM](#) [PTHF25-59VM](#) [PTHF50-59VM](#) [PTHF75-59VM](#)  
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