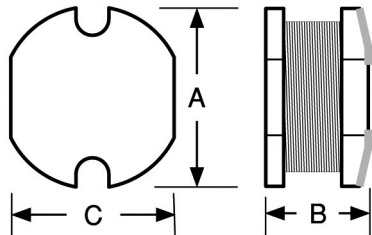
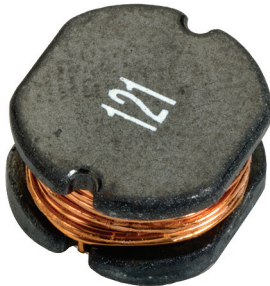
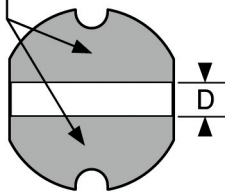


**SERIES****PDxxxR**RoHS  
Compliant**SMT Power Choke Core****TERMINATIONS**

Actual Size (PD105R)

**\*\* Test Measurement Frequency**Values < 10 $\mu$ H tested @ 7.96 MHz;Values  $\geq$ 10 $\mu$ H tested @ 1.0 kHz**Mechanical Configuration**

Units designed for Surface Mounting

**Terminals** Solder Coated**Core Construction** High Resistivity Ferrite**Operating Temperature Range** -55°C to +125°C**Current Rating at 25°C Ambient** The maximum DC Current that will cause a 40°C maximum temperature rise and where the inductance will not decrease by more than 10% from the zero DC value.**Inductance Tolerance** Tolerance is indicated by the suffix to API part number. Standard tolerance per part number is as shown in table.M =  $\pm$ 20%; K =  $\pm$ 10%.**Marking** For values lower than 10 H the R indicates a decimal point and the remaining digits indicate the inductance in H. For values 10 H and above, the first two digits indicate the inductance in H and the third digit indicates the number of trailing zeros where a zero indicates that there are no trailing zeros.

Example: PD43R-102M (1.0 H)

1R0

Example: PD73R-224K (220 H)

221

**Physical Parameters****Dimensions**

| Inches | PD43R             | PD54R             | PD73R             | PD75R             | PD104R            | PD105R            |
|--------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| A      | 0.165 $\pm$ 0.024 | 0.224 $\pm$ 0.008 | 0.303 $\pm$ 0.008 | 0.303 $\pm$ 0.008 | 0.386 $\pm$ 0.016 | 0.386 $\pm$ 0.016 |
| B      | 0.137 MAX.        | 0.177 MAX.        | 0.138 MAX.        | 0.197 MAX.        | 0.157 MAX.        | 0.213 MAX.        |
| C      | 0.153 $\pm$ 0.012 | 0.201 $\pm$ 0.008 | 0.272 $\pm$ 0.008 | 0.272 $\pm$ 0.008 | 0.346 $\pm$ 0.016 | 0.346 $\pm$ 0.016 |
| D      | 0.060 REF.        | 0.051 REF.        | 0.063 REF.        | 0.063 REF.        | 0.083 REF.        | 0.083 REF.        |

| Millimeters | PD43R         | PD54R         | PD73R         | PD75R         | PD104R        | PD105R        |
|-------------|---------------|---------------|---------------|---------------|---------------|---------------|
| A           | 4.2 $\pm$ 0.6 | 5.7 $\pm$ 0.2 | 7.7 $\pm$ 0.2 | 7.7 $\pm$ 0.2 | 9.8 $\pm$ 0.4 | 9.8 $\pm$ 0.4 |
| B           | 3.5 MAX.      | 4.5 MAX.      | 3.5 MAX.      | 5.0 MAX.      | 4.0 MAX.      | 5.4 MAX.      |
| C           | 3.9 $\pm$ 0.3 | 5.1 $\pm$ 0.2 | 6.9 $\pm$ 0.2 | 6.9 $\pm$ 0.2 | 8.8 $\pm$ 0.4 | 8.8 $\pm$ 0.4 |
| D           | 1.52 REF.     | 1.30 REF.     | 1.60 REF.     | 1.60 REF.     | 2.10 REF.     | 2.10 REF.     |

**Packaging** Tape & reel: 7" reel not available; maximum pieces per 13" reel as follows

|        | PD43R | PD54R | PD73R | PD75R | PD104R | PD105R |
|--------|-------|-------|-------|-------|--------|--------|
| mm     | 12    | 16    | 16    | 16    | 24     | 24     |
| Pieces | 1500  | 1000  | 1000  | 500   | 1000   | 500    |

**\*\*Additional Information on Next Page**

# PD SERIES (continued)

Power Inductors

DASH NUMBER\*  
INDUCTANCE (μH)\*\*  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (AMPS)

DASH NUMBER\*  
INDUCTANCE (μH)\*\*  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (AMPS)

DASH NUMBER\*  
INDUCTANCE (μH)\*\*  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (AMPS)

DASH NUMBER\*  
INDUCTANCE (μH)\*\*  
DC RESISTANCE  
MAXIMUM (OHMS)  
CURRENT RATING  
MAXIMUM (AMPS)

| SERIES PD43R |     |       |      |
|--------------|-----|-------|------|
| -102M        | 1.0 | 0.049 | 2.56 |
| -152M        | 1.5 | 0.056 | 2.52 |
| -182M        | 1.8 | 0.064 | 1.95 |
| -222M        | 2.2 | 0.071 | 1.75 |
| -272M        | 2.7 | 0.079 | 1.58 |
| -332M        | 3.3 | 0.086 | 1.44 |
| -392M        | 3.9 | 0.094 | 1.33 |
| -472M        | 4.7 | 0.109 | 1.15 |
| -562M        | 5.6 | 0.126 | 0.99 |
| -682M        | 6.8 | 0.131 | 0.95 |
| -822M        | 8.2 | 0.146 | 0.84 |
| -103M        | 10  | 0.182 | 0.83 |
| -123M        | 12  | 0.210 | 0.80 |
| -153M        | 15  | 0.235 | 0.77 |
| -183M        | 18  | 0.338 | 0.74 |
| -223M        | 22  | 0.378 | 0.66 |
| -273M        | 27  | 0.522 | 0.62 |
| -333K        | 33  | 0.540 | 0.56 |
| -393K        | 39  | 0.587 | 0.52 |
| -473K        | 47  | 0.844 | 0.44 |
| -563K        | 56  | 0.937 | 0.42 |
| -683K        | 68  | 1.120 | 0.37 |
| SERIES PD54R |     |       |      |
| -102M        | 1.0 | 0.050 | 2.90 |
| -152M        | 1.5 | 0.055 | 2.70 |
| -182M        | 1.8 | 0.060 | 2.60 |
| -222M        | 2.2 | 0.064 | 2.40 |
| -272M        | 2.7 | 0.067 | 2.20 |
| -332M        | 3.3 | 0.070 | 2.00 |
| -392M        | 3.9 | 0.075 | 1.90 |
| -472M        | 4.7 | 0.080 | 1.80 |
| -562M        | 5.6 | 0.085 | 1.70 |
| -682M        | 6.8 | 0.090 | 1.60 |
| -822M        | 8.2 | 0.095 | 1.50 |
| -103K        | 10  | 0.100 | 1.44 |
| -123K        | 12  | 0.130 | 1.35 |
| -153K        | 15  | 0.160 | 1.27 |
| -183K        | 18  | 0.180 | 1.19 |
| -223K        | 22  | 0.210 | 1.11 |
| -273K        | 27  | 0.240 | 1.00 |
| -333K        | 33  | 0.280 | 0.90 |
| -393K        | 39  | 0.320 | 0.80 |
| -473K        | 47  | 0.370 | 0.72 |
| -563K        | 56  | 0.420 | 0.68 |
| -683K        | 68  | 0.500 | 0.63 |
| -823K        | 82  | 0.600 | 0.58 |
| -104K        | 100 | 0.700 | 0.52 |
| -124K        | 120 | 0.850 | 0.46 |
| -154K        | 150 | 1.100 | 0.40 |
| -184K        | 180 | 1.330 | 0.37 |
| -224K        | 220 | 1.570 | 0.35 |

| SERIES PD73R |     |       |      |
|--------------|-----|-------|------|
| -332M        | 3.3 | 0.050 | 2.50 |
| -392M        | 3.9 | 0.055 | 2.30 |
| -472M        | 4.7 | 0.060 | 2.10 |
| -562M        | 5.6 | 0.065 | 1.90 |
| -682M        | 6.8 | 0.070 | 1.75 |
| -822M        | 8.2 | 0.075 | 1.60 |
| -103K        | 10  | 0.080 | 1.44 |
| -123K        | 12  | 0.090 | 1.35 |
| -153K        | 15  | 0.100 | 1.30 |
| -183K        | 18  | 0.115 | 1.20 |
| -223K        | 22  | 0.130 | 1.07 |
| -273K        | 27  | 0.170 | 0.98 |
| -333K        | 33  | 0.205 | 0.90 |
| -393K        | 39  | 0.230 | 0.80 |
| -473K        | 47  | 0.250 | 0.68 |
| -563K        | 56  | 0.280 | 0.64 |
| -683K        | 68  | 0.350 | 0.59 |
| -823K        | 82  | 0.410 | 0.54 |
| -104K        | 100 | 0.480 | 0.51 |
| -124K        | 120 | 0.570 | 0.45 |
| -154K        | 150 | 0.750 | 0.40 |
| -184K        | 180 | 1.000 | 0.35 |
| -224K        | 220 | 1.200 | 0.31 |
| SERIES PD75R |     |       |      |
| -103K        | 10  | 0.080 | 2.00 |
| -123K        | 12  | 0.085 | 1.90 |
| -153K        | 15  | 0.085 | 1.75 |
| -183K        | 18  | 0.090 | 1.60 |
| -223K        | 22  | 0.090 | 1.50 |
| -273K        | 27  | 0.120 | 1.40 |
| -333K        | 33  | 0.150 | 1.30 |
| -393K        | 39  | 0.180 | 1.20 |
| -473K        | 47  | 0.210 | 1.10 |
| -563K        | 56  | 0.240 | 0.94 |
| -683K        | 68  | 0.300 | 0.85 |
| -823K        | 82  | 0.370 | 0.78 |
| -104K        | 100 | 0.500 | 0.74 |
| -124K        | 120 | 0.570 | 0.68 |
| -154K        | 150 | 0.640 | 0.58 |
| -184K        | 180 | 0.680 | 0.54 |
| -224K        | 220 | 0.720 | 0.49 |

| SERIES PD104R |     |       |      |
|---------------|-----|-------|------|
| -472M         | 4.7 | 0.040 | 3.00 |
| -562M         | 5.6 | 0.045 | 2.85 |
| -682M         | 6.8 | 0.045 | 2.70 |
| -822M         | 8.2 | 0.050 | 2.55 |
| -103K         | 10  | 0.050 | 2.38 |
| -123K         | 12  | 0.060 | 2.20 |
| -153K         | 15  | 0.070 | 2.00 |
| -183K         | 18  | 0.080 | 1.80 |
| -223K         | 22  | 0.090 | 1.60 |
| -273K         | 27  | 0.110 | 1.45 |
| -333K         | 33  | 0.130 | 1.30 |
| -393K         | 39  | 0.150 | 1.20 |
| -473K         | 47  | 0.170 | 1.10 |
| -563K         | 56  | 0.200 | 1.01 |
| -683K         | 68  | 0.220 | 0.94 |
| -823K         | 82  | 0.250 | 0.85 |
| -104K         | 100 | 0.340 | 0.74 |
| -124K         | 120 | 0.450 | 0.67 |
| -154K         | 150 | 0.540 | 0.61 |
| -184K         | 180 | 0.630 | 0.57 |
| -224K         | 220 | 0.720 | 0.53 |
| -274K         | 270 | 0.900 | 0.48 |
| -334K         | 330 | 1.100 | 0.42 |
| -394K         | 390 | 1.300 | 0.39 |
| -474K         | 470 | 1.530 | 0.35 |
| -564K         | 560 | 1.900 | 0.32 |
| -684K         | 680 | 2.300 | 0.28 |
| SERIES PD105R |     |       |      |
| -103K         | 10  | 0.060 | 2.60 |
| -123K         | 12  | 0.070 | 2.45 |
| -153K         | 15  | 0.080 | 2.30 |
| -183K         | 18  | 0.090 | 2.15 |
| -223K         | 22  | 0.100 | 1.95 |
| -273K         | 27  | 0.115 | 1.80 |
| -333K         | 33  | 0.125 | 1.65 |
| -393K         | 39  | 0.145 | 1.40 |
| -473K         | 47  | 0.170 | 1.28 |
| -563K         | 56  | 0.190 | 1.17 |
| -683K         | 68  | 0.230 | 1.08 |
| -823K         | 82  | 0.250 | 1.00 |
| -104K         | 100 | 0.350 | 0.97 |
| -124K         | 120 | 0.420 | 0.88 |
| -154K         | 150 | 0.470 | 0.80 |
| -184K         | 180 | 0.560 | 0.72 |
| -224K         | 220 | 0.730 | 0.66 |
| -274K         | 270 | 0.950 | 0.60 |
| -334K         | 330 | 1.150 | 0.52 |
| -394K         | 390 | 1.350 | 0.48 |
| -474K         | 470 | 1.480 | 0.42 |
| -564K         | 560 | 1.900 | 0.33 |
| -684K         | 680 | 2.250 | 0.28 |
| -824K         | 820 | 2.550 | 0.24 |

## \*\* Test Measurement Frequency

Values < 10μH tested @ 7.96 MHz  
Values ≥ 10μH tested @ 1.0 kHz

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

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

## \*\* Test Measurement Frequency

Values < 10μH tested @ 7.96 MHz  
Values ≥ 10μH tested @ 1.0 kHz

## \*\* Test Measurement Frequency

Values < 10μH tested @ 7.96 MHz  
Values ≥ 10μH tested @ 1.0 kHz

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