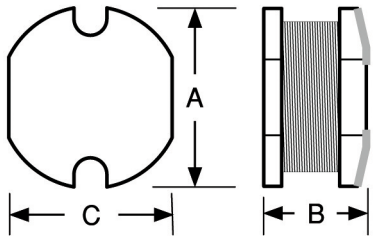
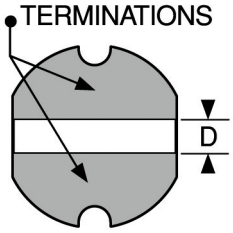
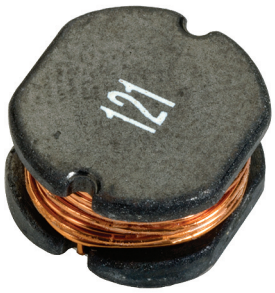
# SERIES PDxxxR

RoHS Compliant

## SMT Power Choke Core



Actual Size (PD105R)

**** Test Measurement Frequency**
Values < 10µH tested @ 7.96 MHz;
Values ≥10uH 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 = ±20%; K = ±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 ±0.024 | 0.224 ±0.008 | 0.303 ±0.008 | 0.303 ±0.008 | 0.386 ±0.016 | 0.386 ±0.016 |
| B | 0.137 MAX. | 0.177 MAX. | 0.138 MAX. | 0.197 MAX. | 0.157 MAX. | 0.213 MAX. |
| C | 0.153 ±0.012 | 0.201 ±0.008 | 0.272 ±0.008 | 0.272 ±0.008 | 0.346 ±0.016 | 0.346 ±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 ±0.6 | 5.7 ±0.2 | 7.7 ±0.2 | 7.7 ±0.2 | 9.8 ±0.4 | 9.8 ±0.4 |
| B | 3.5 MAX. | 4.5 MAX. | 3.5 MAX. | 5.0 MAX. | 4.0 MAX. | 5.4 MAX. |
| C | 3.9 ±0.3 | 5.1 ±0.2 | 6.9 ±0.2 | 6.9 ±0.2 | 8.8 ±0.4 | 8.8 ±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**

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# PD SERIES (continued)

| 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 |

** Test Measurement Frequency
Values < 10µH tested @ 7.96 MHz
Values ≥ 10µH tested @ 1.0 kHz

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

** 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

| DASH NUMBER* | INDUCTANCE (µH)** | DC RESISTANCE MAXIMUM (OHMS) | CURRENT RATING MAXIMUM (AMPS) |
|---|---|---|---|
| **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
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Values ≥ 10µH tested @ 1.0 kHz

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

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- Подбор аналогов;
- Консультации по применению компонента;
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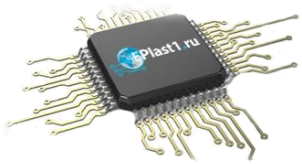
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.

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