



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

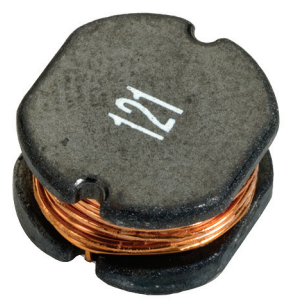
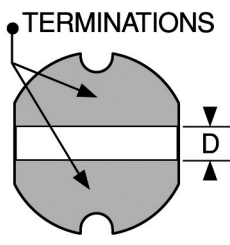
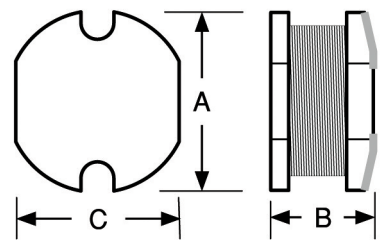
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**SMT Power Choke Core**



Actual Size (PD105R)

**\*\* Test Measurement Frequency**  
 Values < 10μH tested @ 7.96 MHz;  
 Values ≥10μH 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**

# 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)

## 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

## 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](http://www.delevanfinishes.com)

## 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