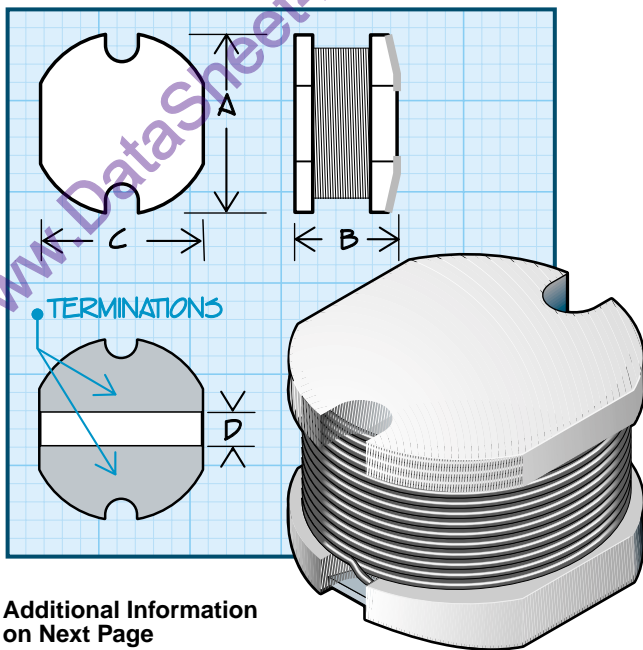


# PD Series

## SMT Power Choke Core



Additional Information on Next Page

### \* Test Measurement Frequency

Values < 10 $\mu$ H tested @ 7.96 MHz;

Values  $\geq$ 10 $\mu$ H tested @ 100 KHz

### Mechanical Configuration

Units designed for Surface Mounting

**Terminals** Solder Coated with SN63 solder

**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%.

### Physical Parameters

#### Dimensions

Inches	PD43	PD54	PD73	PD75	PD104	PD105
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	PD43	PD54	PD73	PD75	PD104	PD105
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

	PD43	PD54	PD73	PD75	PD104	PD105
mm	12	16	16	16	24	24
Pieces	1500	1000	1000	500	1000	500

PART NUMBER	INDUCTANCE (μH) *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
<b>SERIES PD43</b>			
PD43-102M	1.0	0.049	2.56
PD43-152M	1.5	0.056	2.52
PD43-182M	1.8	0.064	1.95
PD43-222M	2.2	0.071	1.75
PD43-272M	2.7	0.079	1.58
PD43-332M	3.3	0.086	1.44
PD43-392M	3.9	0.094	1.33
PD43-472M	4.7	0.109	1.15
PD43-562M	5.6	0.126	0.99
PD43-682M	6.8	0.131	0.95
PD43-822M	8.2	0.146	0.84
PD43-103M	10	0.182	0.83
PD43-123M	12	0.210	0.80
PD43-153M	15	0.235	0.77
PD43-183M	18	0.338	0.74
PD43-223M	22	0.378	0.66
PD43-273M	27	0.522	0.62
PD43-333K	33	0.540	0.56
PD43-393K	39	0.587	0.52
PD43-473K	47	0.844	0.44
PD43-563K	56	0.937	0.42
PD43-683K	68	1.120	0.37
<b>SERIES PD54</b>			
PD54-102M	1.0	0.050	2.90
PD54-152M	1.5	0.055	2.70
PD54-182M	1.8	0.060	2.60
PD54-222M	2.2	0.064	2.40
PD54-272M	2.7	0.067	2.20
PD54-332M	3.3	0.070	2.00
PD54-392M	3.9	0.075	1.90
PD54-472M	4.7	0.080	1.80
PD54-562M	5.6	0.085	1.70
PD54-682M	6.8	0.090	1.60
PD54-822M	8.2	0.095	1.50
PD54-103K	10	0.100	1.44
PD54-123K	12	0.130	1.35
PD54-153K	15	0.160	1.27
PD54-183K	18	0.180	1.19
PD54-223K	22	0.210	1.11
PD54-273K	27	0.240	1.00
PD54-333K	33	0.280	0.90
PD54-393K	39	0.320	0.80
PD54-473K	47	0.370	0.72
PD54-563K	56	0.420	0.68
PD54-683K	68	0.500	0.63
PD54-823K	82	0.600	0.58
PD54-104K	100	0.700	0.52
PD54-124K	120	0.850	0.46
PD54-154K	150	1.100	0.40
PD54-184K	180	1.330	0.37
PD54-224K	220	1.570	0.35

\* Test Measurement Frequency:  
 Values < 10μH tested @ 7.96 MHz  
 Values ≥ 10μH tested @ 100 KHz

PART NUMBER	INDUCTANCE (μH) *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
<b>SERIES PD73</b>			
PD73-332M	3.3	0.050	2.50
PD73-392M	3.9	0.055	2.30
PD73-472M	4.7	0.060	2.10
PD73-562M	5.6	0.065	1.90
PD73-682M	6.8	0.070	1.75
PD73-822M	8.2	0.075	1.60
PD73-103K	10	0.080	1.44
PD73-123K	12	0.090	1.35
PD73-153K	15	0.100	1.30
PD73-183K	18	0.115	1.20
PD73-223K	22	0.130	1.07
PD73-273K	27	0.170	0.98
PD73-333K	33	0.205	0.90
PD73-393K	39	0.230	0.80
PD73-473K	47	0.250	0.68
PD73-563K	56	0.280	0.64
PD73-683K	68	0.350	0.59
PD73-823K	82	0.410	0.54
PD73-104K	100	0.480	0.51
PD73-124K	120	0.570	0.45
PD73-154K	150	0.750	0.40
PD73-184K	180	1.000	0.35
PD73-224K	220	1.200	0.31
<b>SERIES PD75</b>			
PD75-103K	10	0.080	2.00
PD75-123K	12	0.085	1.90
PD75-153K	15	0.085	1.75
PD75-183K	18	0.090	1.60
PD75-223K	22	0.090	1.50
PD75-273K	27	0.120	1.40
PD75-333K	33	0.150	1.30
PD75-393K	39	0.180	1.20
PD75-473K	47	0.210	1.10
PD75-563K	56	0.240	0.94
PD75-683K	68	0.300	0.85
PD75-823K	82	0.370	0.78
PD75-104K	100	0.500	0.74
PD75-124K	120	0.570	0.68
PD75-154K	150	0.640	0.58
PD75-184K	180	0.680	0.54
PD75-224K	220	0.720	0.49

\* Test Measurement Frequency:  
 Values < 10μH tested @ 7.96 MHz  
 Values ≥ 10μH tested @ 100 KHz

PART NUMBER	INDUCTANCE (μH) *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
<b>SERIES PD104</b>			
PD104-472M	4.7	0.040	3.00
PD104-562M	5.6	0.045	2.85
PD104-682M	6.8	0.045	2.70
PD104-822M	8.2	0.050	2.55
PD104-103K	10	0.050	2.38
PD104-123K	12	0.060	2.20
PD104-153K	15	0.070	2.00
PD104-183K	18	0.080	1.80
PD104-223K	22	0.090	1.60
PD104-273K	27	0.110	1.45
PD104-333K	33	0.130	1.30
PD104-393K	39	0.150	1.20
PD104-473K	47	0.170	1.10
PD104-563K	56	0.200	1.01
PD104-683K	68	0.220	0.94
PD104-823K	82	0.250	0.85
PD104-104K	100	0.340	0.74
PD104-124K	120	0.450	0.67
PD104-154K	150	0.540	0.61
PD104-183K	180	0.630	0.57
PD104-224K	220	0.720	0.53
PD104-274K	270	0.900	0.48
PD104-334K	330	1.100	0.42
PD104-394K	390	1.300	0.39
PD104-474K	470	1.530	0.35
PD104-564K	560	1.900	0.32
PD104-684K	680	2.300	0.28
<b>SERIES PD105</b>			
PD105-103K	10	0.060	2.60
PD105-123K	12	0.070	2.45
PD105-153K	15	0.080	2.30
PD105-183K	18	0.090	2.15
PD105-223K	22	0.100	1.95
PD105-273K	27	0.115	1.80
PD105-333K	33	0.125	1.65
PD105-393K	39	0.145	1.40
PD105-473K	47	0.170	1.28
PD105-563K	56	0.190	1.17
PD105-683K	68	0.230	1.08
PD105-823K	82	0.250	1.00
PD105-104K	100	0.350	0.97
PD105-124K	120	0.420	0.88
PD105-154K	150	0.470	0.80
PD105-184K	180	0.560	0.72
PD105-224K	220	0.730	0.66
PD105-274K	270	0.950	0.60
PD105-334K	330	1.150	0.52
PD105-394K	390	1.350	0.48
PD105-474K	470	1.480	0.42
PD105-564K	560	1.900	0.33
PD105-684K	680	2.250	0.28
PD105-824K	820	2.550	0.24

\* Test Measurement Frequency:  
 Values < 10μH tested @ 7.96 MHz  
 Values ≥ 10μH tested @ 100 KHz