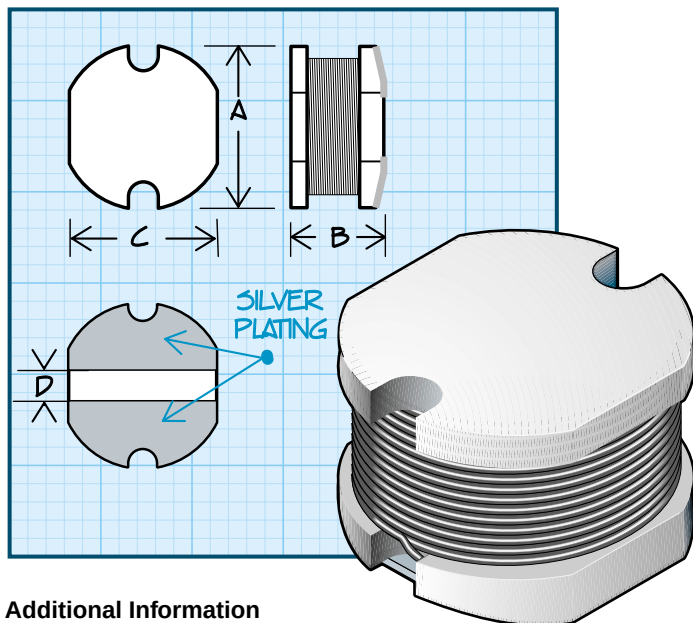


PD Series

SMT Power Choke Core



Additional Information
on Next Page

* Test Measurement Frequency

Values < 10 μ H tested @ 7.96MHz;

Values $\geq 10\mu$ H @ 0.100 MHz (1.0 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 ± 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	PD43	PD54	PD73	PD75	PD104	PD105
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

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

PART NUMBER	INDUCTANCE (μH) @ 1 KHz *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)	PART NUMBER	INDUCTANCE (μH) @ 1 KHz *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)	PART NUMBER	INDUCTANCE (μH) @ 1 KHz *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
SERIES PD43				SERIES PD73				SERIES PD104			
PD43-102M	1.0**	0.049	2.56	PD73-332M	3.3**	0.050	2.50	PD104-472M	4.7**	0.040	3.00
PD43-152M	1.5**	0.056	2.52	PD73-392M	3.9**	0.055	2.30	PD104-562M	5.6**	0.045	2.85
PD43-182M	1.8**	0.064	1.95	PD73-472M	4.7**	0.060	2.10	PD104-682M	6.8**	0.045	2.70
PD43-222M	2.2**	0.071	1.75	PD73-562M	5.6**	0.065	1.90	PD104-822M	8.2**	0.050	2.55
PD43-272M	2.7**	0.079	1.58	PD73-682M	6.8**	0.070	1.75	PD104-103K	10	0.050	2.38
PD43-332M	3.3**	0.086	1.44	PD73-822M	8.2**	0.075	1.60	PD104-123K	12	0.060	2.20
PD43-392M	3.9**	0.094	1.33	PD73-103K	10	0.080	1.44	PD104-153K	15	0.070	2.00
PD43-472M	4.7**	0.109	1.15	PD73-123K	12	0.090	1.35	PD104-183K	18	0.080	1.80
PD43-562M	5.6**	0.126	0.99	PD73-153K	15	0.100	1.30	PD104-223K	22	0.090	1.60
PD43-682M	6.8**	0.131	0.95	PD73-183K	18	0.115	1.20	PD104-273K	27	0.110	1.45
PD43-822M	8.2**	0.146	0.84	PD73-223K	22	0.130	1.07	PD104-333K	33	0.130	1.30
PD43-103M	10	0.182	0.83	PD73-273K	27	0.170	0.98	PD104-393K	39	0.150	1.20
PD43-123M	12	0.210	0.80	PD73-333K	33	0.205	0.90	PD104-473K	47	0.170	1.10
PD43-153M	15	0.235	0.77	PD73-393K	39	0.230	0.80	PD104-563K	56	0.200	1.01
PD43-183M	18	0.338	0.74	PD73-473K	47	0.250	0.68	PD104-683K	68	0.220	0.94
PD43-223M	22	0.378	0.66	PD73-563K	56	0.280	0.64	PD104-823K	82	0.250	0.85
PD43-273M	27	0.522	0.62	PD73-683K	68	0.350	0.59	PD104-104K	100	0.340	0.74
PD43-333K	33	0.540	0.56	PD73-823K	82	0.410	0.54	PD104-124K	120	0.450	0.67
PD43-393K	39	0.587	0.52	PD73-104K	100	0.480	0.51	PD104-154K	150	0.540	0.61
PD43-473K	47	0.844	0.44	PD73-124K	120	0.570	0.45	PD104-183K	180	0.630	0.57
PD43-563K	56	0.937	0.42	PD73-154K	150	0.750	0.40	PD104-224K	220	0.720	0.53
PD43-683K	68	1.120	0.37	PD73-184K	180	1.000	0.35	PD104-274K	270	0.900	0.48
				PD73-224K	220	1.200	0.31	PD104-334K	330	1.100	0.42
SERIES PD54				SERIES PD75				PD104-394K	390	1.300	0.39
PD54-102M	1.0**	0.050	2.90	PD75-103K	10	0.080	2.00	PD104-474K	470	1.530	0.35
PD54-152M	1.5**	0.055	2.70	PD75-123K	12	0.085	1.90	PD104-564K	560	1.900	0.32
PD54-182M	1.8**	0.060	2.60	PD75-153K	15	0.085	1.75	PD104-684K	680	2.300	0.28
PD54-222M	2.2**	0.064	2.40	PD75-183K	18	0.090	1.60	SERIES PD105			
PD54-272M	2.7**	0.067	2.20	PD75-223K	22	0.090	1.50	PD105-103K	10	0.060	2.60
PD54-332M	3.3**	0.070	2.00	PD75-273K	27	0.120	1.40	PD105-123K	12	0.070	2.45
PD54-392M	3.9**	0.075	1.90	PD75-333K	33	0.150	1.30	PD105-153K	15	0.080	2.30
PD54-472M	4.7**	0.080	1.80	PD75-393K	39	0.180	1.20	PD105-183K	18	0.090	2.15
PD54-562M	5.6**	0.085	1.70	PD75-473K	47	0.210	1.10	PD105-223K	22	0.100	1.95
PD54-682M	6.8**	0.090	1.60	PD75-563K	56	0.240	0.94	PD105-273K	27	0.115	1.80
PD54-822M	8.2**	0.095	1.50	PD75-683K	68	0.300	0.85	PD105-333K	33	0.125	1.65
PD54-103K	10	0.100	1.44	PD75-823K	82	0.370	0.78	PD105-393K	39	0.145	1.40
PD54-123K	12	0.130	1.35	PD75-104K	100	0.500	0.74	PD105-473K	47	0.170	1.28
PD54-153K	15	0.160	1.27	PD75-124K	120	0.570	0.68	PD105-563K	56	0.190	1.17
PD54-183K	18	0.180	1.19	PD75-154K	150	0.640	0.58	PD105-683K	68	0.230	1.08
PD54-223K	22	0.210	1.11	PD75-184K	180	0.680	0.54	PD105-823K	82	0.250	1.00
PD54-273K	27	0.240	1.00	PD75-224K	220	0.720	0.49	PD105-104K	100	0.350	0.97
PD54-333K	33	0.280	0.90					PD105-124K	120	0.420	0.88
PD54-393K	39	0.320	0.80					PD105-154K	150	0.470	0.80
PD54-473K	47	0.370	0.72					PD105-184K	180	0.560	0.72
PD54-563K	56	0.420	0.68					PD105-224K	220	0.730	0.66
PD54-683K	68	0.500	0.63					PD105-274K	270	0.950	0.60
PD54-823K	82	0.600	0.58					PD105-334K	330	1.150	0.52
PD54-104K	100	0.700	0.52					PD105-394K	390	1.350	0.48
PD54-124K	120	0.850	0.46					PD105-474K	470	1.480	0.42
PD54-154K	150	1.100	0.40					PD105-564K	560	1.900	0.33
PD54-184K	180	1.330	0.37					PD105-684K	680	2.250	0.28
PD54-224K	220	1.570	0.35					PD105-824K	820	2.550	0.24