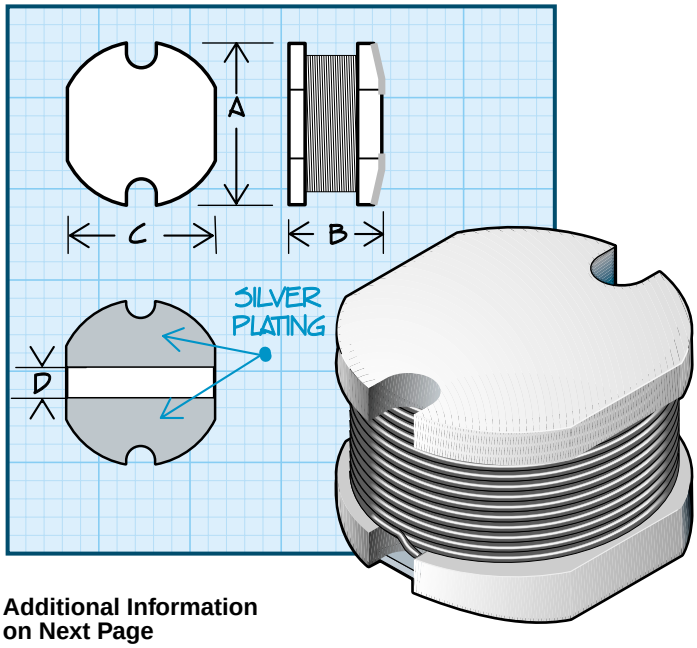
PD Series

SMT Power Choke Core



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*** Test Measurement Frequency**
Values < 10µH tested @ 7.96MHz;
Values ≥10uH @ 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 = ±20%; K = ±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

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PART NUMBER	INDUCTANCE (µH) @ 1 KHz *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
SERIES PD43			
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
SERIES PD54			
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

PART NUMBER	INDUCTANCE (µH) @ 1 KHz *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
SERIES PD73			
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
SERIES PD75			
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

PART NUMBER	INDUCTANCE (µH) @ 1 KHz *	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAX. (AMPS)
SERIES PD104			
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
SERIES PD105			
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

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