

UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

FEATURES

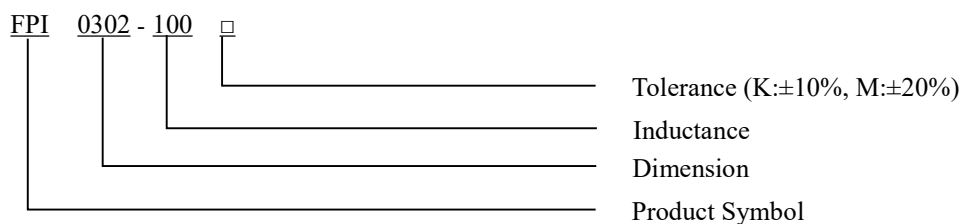
- ◆ Silver Plated Type
- ◆ High power and high saturation
- ◆ Ideal inductors for DC/DC conversion



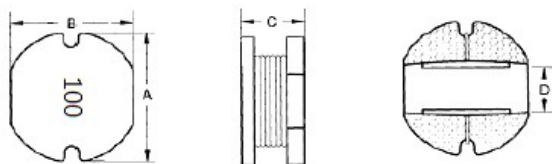
APPLICATIONS

- ◆ Smart home devices.
- ◆ DC/DC converter devices.
- ◆ Various categories of consumer electronics.

ORDERING CODE



SHAPES



DIMENSIONS (UNIT: mm)

Part No.	A	B	C	D (Ref.)
FPI 0311	3.3 ± 0.3	3.0 ± 0.3	1.1 ± 0.3	1.0
FPI 0315	3.3 ± 0.3	3.0 ± 0.3	1.5 ± 0.3	1.0
FPI 0302	3.3 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	1.0
FPI 0402	4.5 ± 0.3	4.0 ± 0.3	2.1 ± 0.3	1.3
FPI 0403	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	1.3
FPI 0519	5.8 ± 0.3	5.2 ± 0.3	2.1 ± 0.3	1.3
FPI 0502	5.8 ± 0.3	5.2 ± 0.3	2.5 ± 0.3	1.3
FPI 0503	5.8 ± 0.3	5.2 ± 0.3	3.0 ± 0.5	1.3
FPI 0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.3	1.3
FPI 0703	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.3	2.1
FPI 0705	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.3	2.1
FPI 0706	7.8 ± 0.3	7.0 ± 0.3	6.2 ± 0.3	2.6
FPI 0707	7.8 ± 0.3	7.0 ± 0.3	7.0 ± 0.3	2.6
FPI 1004	10.0 ± 0.3	9.0 ± 0.3	4.0 ± 0.3	3.1
FPI 1005	10.0 ± 0.4	9.0 ± 0.4	5.4 ± 0.3	3.1
FPI 1006	10.0 ± 0.4	9.0 ± 0.4	6.5 ± 0.3	3.1
FPI 1008	10.0 ± 0.4	9.0 ± 0.4	8.2 ± 0.3	3.1
FPI 1206	13.0 ± 0.5	13.0 ± 0.5	7.0 ± 0.3	4.5



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ELECTRICAL CHARACTERISTICS FOR FPI0311

Part No.	Inductance (uH)	RDC (Ω) MAX	IDC (A) MAX
FPI0311-1R0 □	1.0	0.060	2.00
FPI0311-2R2 □	2.2	0.130	1.70
FPI0311-2R7 □	2.7	0.150	1.35
FPI0311-3R3 □	3.3	0.170	1.25
FPI0311-4R7 □	4.7	0.300	1.20
FPI0311-6R8 □	6.8	0.420	1.00
FPI0311-100 □	10	0.800	0.82
FPI0311-220 □	22	1.500	0.60
FPI0311-330 □	33	1.550	0.45

ELECTRICAL CHARACTERISTICS FOR FPI0315

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0315-1R0 □	1.0	0.060	3.20
FPI0315-2R2 □	2.2	0.100	2.20
FPI0315-3R3 □	3.3	0.150	1.80
FPI0315-4R7 □	4.7	0.170	1.55
FPI0315-5R6 □	5.6	0.210	1.30
FPI0315-6R8 □	6.8	0.230	1.10
FPI0315-8R2 □	8.2	0.260	1.00
FPI0315-100 □	10	0.300	0.90
FPI0315-150 □	15	0.560	0.80
FPI0315-470 □	47	1.500	0.50
FPI0315-101 □	100	3.100	0.30

ELECTRICAL CHARACTERISTICS FOR FPI0302

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0302-1R0 □	1.0	0.054	4.00
FPI0302-2R2 □	2.2	0.120	2.50
FPI0302-3R3 □	3.3	0.160	2.30
FPI0302-4R7 □	4.7	0.200	2.20
FPI0302-5R6 □	5.6	0.210	1.70
FPI0302-6R8 □	6.8	0.350	1.50
FPI0302-8R2 □	8.2	0.290	1.45
FPI0302-100 □	10	0.360	1.40
FPI0302-120 □	12	0.387	1.20
FPI0302-150 □	15	0.450	1.13
FPI0302-180 □	18	0.490	0.90
FPI0302-220 □	22	0.600	0.85
FPI0302-270 □	27	0.750	0.80
FPI0302-330 □	33	1.550	0.75
FPI0302-390 □	39	2.150	0.70



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ELECTRICAL CHARACTERISTICS FOR FPI0302

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0302-470 □	47	2.300	0.65
FPI0302-560 □	56	2.450	0.60
FPI0302-680 □	68	2.500	0.50
FPI0302-820 □	82	2.700	0.40
FPI0302-101 □	100	3.000	0.35
FPI0302-121 □	120	3.200	0.30
FPI0302-151 □	150	3.600	0.28
FPI0302-181 □	180	5.780	0.26
FPI0302-221 □	220	7.000	0.25
FPI0302-271 □	270	7.580	0.24
FPI0302-331 □	330	8.450	0.23
FPI0302-391 □	390	9.480	0.22
FPI0302-471 □	470	10.800	0.21
FPI0302-561 □	560	17.000	0.12
FPI0302-102 □	1000	34.500	0.11

ELECTRICAL CHARACTERISTICS FOR FPI0402

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0402-1R0 □	1.0	0.020	5.40
FPI0402-1R5 □	1.5	0.025	4.57
FPI0402-2R2 □	2.2	0.036	3.50
FPI0402-3R3 □	3.3	0.051	2.80
FPI0402-4R7 □	4.7	0.063	2.60
FPI0402-6R8 □	6.8	0.108	2.05
FPI0402-100 □	10	0.140	1.70
FPI0402-150 □	15	0.230	1.35
FPI0402-220 □	22	0.360	1.17
FPI0402-330 □	33	0.530	0.94
FPI0402-470 □	47	0.760	0.79
FPI0402-680 □	68	0.860	0.65
FPI0402-101 □	100	1.310	0.54



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ELECTRICAL CHARACTERISTICS FOR FPI0403

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0403-1R0 □	1.0	0.049	4.50
FPI0403-2R2 □	2.2	0.065	3.70
FPI0403-3R3 □	3.3	0.087	3.00
FPI0403-4R7 □	4.7	0.094	2.40
FPI0403-5R6 □	5.6	0.150	2.20
FPI0403-6R8 □	6.8	0.160	1.90
FPI0403-8R2 □	8.2	0.170	1.80
FPI0403-100 □	10	0.182	1.50
FPI0403-120 □	12	0.210	1.40
FPI0403-150 □	15	0.235	1.30
FPI0403-180 □	18	0.340	1.20
FPI0403-220 □	22	0.450	1.00
FPI0403-270 □	27	0.520	0.90
FPI0403-330 □	33	0.600	0.85
FPI0403-390 □	39	0.680	0.80
FPI0403-470 □	47	0.770	0.70
FPI0403-560 □	56	0.830	0.58
FPI0403-680 □	68	1.030	0.55
FPI0403-820 □	82	1.220	0.50
FPI0403-101 □	100	1.340	0.48
FPI0403-121 □	120	1.460	0.45
FPI0403-151 □	150	1.850	0.40
FPI0403-181 □	180	2.180	0.35
FPI0403-221 □	220	3.530	0.33
FPI0403-271 □	270	3.840	0.30
FPI0403-331 □	330	4.200	0.25
FPI0403-391 □	390	4.300	0.23
FPI0403-471 □	470	7.000	0.20
FPI0403-561 □	560	8.500	0.18
FPI0403-102 □	1000	15.000	0.16



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ELECTRICAL CHARACTERISTICS FOR FPI0519

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0519-1R0 □	1.0	0.035	5.70
FPI0519-2R2 □	2.2	0.062	4.20
FPI0519-3R9 □	3.9	0.073	3.30
FPI0519-4R7 □	4.7	0.080	2.50
FPI0519-6R8 □	6.8	0.160	2.40
FPI0519-100 □	10	0.180	1.80
FPI0519-220 □	22	0.450	1.20
FPI0519-470 □	47	0.750	0.80
FPI0519-560 □	56	0.800	0.60
FPI0519-680 □	68	1.150	0.55
FPI0519-101 □	100	1.500	0.50
FPI0519-151 □	150	2.000	0.45
FPI0519-181 □	180	2.500	0.40

ELECTRICAL CHARACTERISTICS FOR FPI0502

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0502-1R5 □	1.5	0.048	5.50
FPI0502-2R2 □	2.2	0.060	5.00
FPI0502-3R3 □	3.3	0.070	3.60
FPI0502-4R7 □	4.7	0.075	2.80
FPI0502-5R6 □	5.6	0.150	2.70
FPI0502-6R8 □	6.8	0.160	2.50
FPI0502-100 □	10	0.180	2.10
FPI0502-150 □	15	0.220	1.90
FPI0502-220 □	22	0.390	1.25
FPI0502-330 □	33	0.430	1.05
FPI0502-470 □	47	0.720	1.00
FPI0502-560 □	56	0.800	0.75
FPI0502-680 □	68	1.000	0.70
FPI0502-820 □	82	1.200	0.70
FPI0502-101 □	100	1.300	0.68
FPI0502-151 □	150	1.810	0.55
FPI0502-221 □	220	3.500	0.46
FPI0502-331 □	330	4.000	0.40
FPI0502-471 □	470	5.000	0.35
FPI0502-561 □	560	5.900	0.32
FPI0502-681 □	680	8.000	0.20



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ELECTRICAL CHARACTERISTICS FOR FPI0503

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0503-1R0 □	1.0	0.030	10.00
FPI0503-2R2 □	2.2	0.040	5.10
FPI0503-2R7 □	2.7	0.050	4.80
FPI0503-3R3 □	3.3	0.065	4.00
FPI0503-4R7 □	4.7	0.070	2.90
FPI0503-5R6 □	5.6	0.090	2.80
FPI0503-6R8 □	6.8	0.092	2.60
FPI0503-8R2 □	8.2	0.095	2.40
FPI0503-100 □	10	0.170	2.20
FPI0503-120 □	12	0.180	2.10
FPI0503-150 □	15	0.200	2.00
FPI0503-180 □	18	0.210	1.70
FPI0503-220 □	22	0.300	1.50
FPI0503-270 □	27	0.315	1.30
FPI0503-330 □	33	0.380	1.10
FPI0503-390 □	39	0.400	0.95
FPI0503-470 □	47	0.500	0.90
FPI0503-560 □	56	0.700	0.80
FPI0503-680 □	68	1.000	0.75
FPI0503-820 □	82	1.050	0.73
FPI0503-101 □	100	1.100	0.70
FPI0503-121 □	120	1.200	0.63
FPI0503-151 □	150	1.500	0.56
FPI0503-181 □	180	1.800	0.53
FPI0503-221 □	220	2.500	0.48
FPI0503-271 □	270	2.600	0.43
FPI0503-331 □	330	3.000	0.38
FPI0503-471 □	470	3.800	0.37
FPI0503-561 □	560	4.700	0.33
FPI0503-102 □	1000	8.000	0.26



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ELECTRICAL CHARACTERISTICS FOR FPI0504

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0504-1R0 □	1.0	0.020	7.70
FPI0504-1R5 □	1.5	0.025	6.00
FPI0504-2R2 □	2.2	0.035	5.20
FPI0504-2R7 □	2.7	0.045	5.00
FPI0504-3R3 □	3.3	0.050	4.20
FPI0504-3R9 □	3.9	0.055	4.00
FPI0504-4R7 □	4.7	0.060	3.00
FPI0504-5R6 □	5.6	0.065	2.90
FPI0504-6R8 □	6.8	0.068	2.70
FPI0504-8R2 □	8.2	0.070	2.50
FPI0504-100 □	10	0.100	2.30
FPI0504-120 □	12	0.120	2.20
FPI0504-150 □	15	0.140	2.10
FPI0504-180 □	18	0.150	2.00
FPI0504-220 □	22	0.180	1.50
FPI0504-270 □	27	0.200	1.40
FPI0504-330 □	33	0.230	1.20
FPI0504-390 □	39	0.300	1.10
FPI0504-470 □	47	0.310	1.00
FPI0504-560 □	56	0.420	0.85
FPI0504-680 □	68	0.460	0.80
FPI0504-820 □	82	0.600	0.77
FPI0504-101 □	100	0.700	0.70
FPI0504-121 □	120	0.930	0.65
FPI0504-151 □	150	1.100	0.58
FPI0504-181 □	180	1.350	0.55
FPI0504-221 □	220	1.570	0.50
FPI0504-271 □	270	1.850	0.47
FPI0504-331 □	330	2.000	0.45
FPI0504-391 □	390	2.200	0.42
FPI0504-471 □	470	3.000	0.40
FPI0504-561 □	560	3.000	0.35
FPI0504-681 □	680	4.000	0.33
FPI0504-821 □	820	4.400	0.30
FPI0504-102 □	1000	5.000	0.28



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UNSHIELDED SMD POWER INDUCTORS / FPI TYPE
ELECTRICAL CHARACTERISTICS FOR FPI0703

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0703-1R0 □	1.0	0.020	11.00
FPI0703-1R5 □	1.5	0.025	8.00
FPI0703-2R2 □	2.2	0.030	6.50
FPI0703-3R3 □	3.3	0.040	5.60
FPI0703-4R7 □	4.7	0.045	4.50
FPI0703-5R6 □	5.6	0.050	4.00
FPI0703-6R8 □	6.8	0.065	3.70
FPI0703-100 □	10	0.080	3.40
FPI0703-150 □	15	0.100	3.00
FPI0703-220 □	22	0.130	2.20
FPI0703-330 □	33	0.170	2.00
FPI0703-470 □	47	0.250	1.40
FPI0703-560 □	56	0.300	1.30
FPI0703-680 □	68	0.330	1.20
FPI0703-101 □	100	0.480	0.95
FPI0703-151 □	150	0.750	0.85
FPI0703-181 □	180	1.020	0.80
FPI0703-221 □	220	1.200	0.70
FPI0703-331 □	330	1.500	0.52
FPI0703-471 □	470	2.400	0.42
FPI0703-561 □	560	2.700	0.37
FPI0703-102 □	1000	4.000	0.29



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ELECTRICAL CHARACTERISTICS FOR FPI0705

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0705-1R0 □	1.0	0.020	12.00
FPI0705-1R5 □	1.5	0.024	8.40
FPI0705-2R2 □	2.2	0.028	6.80
FPI0705-3R3 □	3.3	0.031	6.50
FPI0705-3R9 □	3.9	0.033	6.00
FPI0705-4R7 □	4.7	0.035	5.50
FPI0705-5R6 □	5.6	0.037	5.20
FPI0705-6R8 □	6.8	0.040	4.90
FPI0705-8R2 □	8.2	0.050	3.80
FPI0705-100 □	10	0.070	3.50
FPI0705-120 □	12	0.080	3.30
FPI0705-150 □	15	0.090	3.10
FPI0705-180 □	18	0.100	2.90
FPI0705-220 □	22	0.130	2.30
FPI0705-270 □	27	0.140	2.20
FPI0705-330 □	33	0.150	2.10
FPI0705-470 □	47	0.180	1.80
FPI0705-560 □	56	0.240	1.55
FPI0705-680 □	68	0.280	1.40
FPI0705-820 □	82	0.370	1.20
FPI0705-101 □	100	0.430	1.10
FPI0705-121 □	120	0.470	1.00
FPI0705-151 □	150	0.640	0.95
FPI0705-181 □	180	0.710	0.85
FPI0705-221 □	220	0.960	0.80
FPI0705-271 □	270	1.110	0.70
FPI0705-331 □	330	1.260	0.60
FPI0705-471 □	470	1.600	0.50
FPI0705-561 □	560	1.800	0.43
FPI0705-681 □	680	2.000	0.40
FPI0705-821 □	820	2.570	0.37
FPI0705-102 □	1000	4.000	0.35



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ELECTRICAL CHARACTERISTICS FOR FPI0706

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0706-470 □	47	1.850	2.20
FPI0706-151 □	150	1.900	1.10
FPI0706-821 □	820	3.000	0.49
FPI0706-102 □	1000	3.900	0.45
FPI0706-152 □	1500	5.800	0.39

ELECTRICAL CHARACTERISTICS FOR FPI0707

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0707-330 □	33	0.140	3.00
FPI0707-470 □	47	0.170	2.50
FPI0707-151 □	150	0.600	1.30
FPI0707-221 □	220	0.800	1.10
FPI0707-801 □	800	2.600	0.54
FPI0707-102 □	1000	3.800	0.44
FPI0707-122 □	1200	4.300	0.40
FPI0707-152 □	1500	5.200	0.32

ELECTRICAL CHARACTERISTICS FOR FPI1004

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1004-1R2 □	1.2	0.022	9.00
FPI1004-6R8 □	6.8	0.040	5.00
FPI1004-100 □	10	0.065	3.80
FPI1004-150 □	15	0.080	3.20
FPI1004-180 □	18	0.090	3.10
FPI1004-220 □	22	0.110	3.00
FPI1004-270 □	27	0.120	2.50
FPI1004-330 □	33	0.140	2.10
FPI1004-390 □	39	0.150	2.00
FPI1004-470 □	47	0.170	1.80
FPI1004-680 □	68	0.260	1.50
FPI1004-101 □	100	0.320	1.40
FPI1004-221 □	220	0.770	0.80
FPI1004-331 □	330	1.150	0.95
FPI1004-471 □	470	1.600	0.55
FPI1004-561 □	560	1.700	0.50
FPI1004-102 □	1000	3.500	0.45



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ELECTRICAL CHARACTERISTICS FOR FPI1005

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1005-1R0 □	1.0	0.020	16.00
FPI1005-2R2 □	2.2	0.023	10.20
FPI1005-3R3 □	3.3	0.031	8.00
FPI1005-4R7 □	4.7	0.033	6.30
FPI1005-5R6 □	5.6	0.034	5.90
FPI1005-6R8 □	6.8	0.038	5.50
FPI1005-8R2 □	8.2	0.040	5.20
FPI1005-100 □	10	0.060	5.00
FPI1005-150 □	15	0.080	4.00
FPI1005-180 □	18	0.090	3.40
FPI1005-220 □	22	0.100	3.00
FPI1005-330 □	33	0.120	2.80
FPI1005-390 □	39	0.150	2.30
FPI1005-470 □	47	0.170	2.20
FPI1005-560 □	56	0.190	2.00
FPI1005-680 □	68	0.220	1.80
FPI1005-820 □	82	0.250	1.70
FPI1005-101 □	100	0.300	1.60
FPI1005-121 □	120	0.400	1.55
FPI1005-151 □	150	0.470	1.45
FPI1005-181 □	180	0.630	1.35
FPI1005-221 □	220	0.730	1.00
FPI1005-331 □	330	1.150	0.68
FPI1005-471 □	470	1.480	0.57
FPI1005-561 □	560	1.500	0.53
FPI1005-681 □	680	1.600	0.50
FPI1005-821 □	820	2.000	0.38
FPI1005-102 □	1000	3.800	0.20



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UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

ELECTRICAL CHARACTERISTICS FOR FPI1006

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1006-1R5 □	1.5	0.020	20.00
FPI1006-3R3 □	3.3	0.030	15.00
FPI1006-100 □	10	0.050	9.20
FPI1006-150 □	15	0.070	7.00
FPI1006-220 □	22	0.075	6.20
FPI1006-330 □	33	0.090	4.50
FPI1006-390 □	39	0.100	3.80
FPI1006-470 □	47	0.130	2.40
FPI1006-560 □	56	0.140	2.00
FPI1006-680 □	68	0.200	1.75
FPI1006-101 □	100	0.218	1.70
FPI1006-121 □	120	0.280	1.60
FPI1006-151 □	150	0.330	1.50
FPI1006-221 □	220	0.600	1.40
FPI1006-331 □	330	0.750	1.30
FPI1006-471 □	470	1.100	1.20
FPI1006-102 □	1000	3.500	0.45



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UNSHIELDED SMD POWER INDUCTORS / FPI TYPE
ELECTRICAL CHARACTERISTICS FOR FPI1008

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1008-6R8 □	6.8	0.026	8.00
FPI1008-100 □	10	0.036	7.50
FPI1008-220 □	22	0.055	4.70
FPI1008-330 □	33	0.082	3.80
FPI1008-470 □	47	0.100	3.20
FPI1008-560 □	56	0.120	3.06
FPI1008-680 □	68	0.150	2.70
FPI1008-820 □	82	0.180	2.45
FPI1008-101 □	100	0.200	2.00
FPI1008-151 □	150	0.325	1.80
FPI1008-221 □	220	0.450	1.50
FPI1008-331 □	330	0.640	1.24
FPI1008-471 □	470	0.950	1.02
FPI1008-561 □	560	1.200	0.99
FPI1008-681 □	680	1.330	0.84
FPI1008-821 □	820	1.660	0.79
FPI1008-102 □	1000	1.980	0.76
FPI1008-122 □	1200	2.440	0.70
FPI1008-152 □	1500	2.990	0.65
FPI1008-202 □	2000	4.290	0.50
FPI1008-302 □	3000	6.000	0.45
FPI1008-402 □	4000	8.060	0.40
FPI1008-442 □	4400	8.300	0.32
FPI1008-104 □	100000	182.0	0.05



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UNSHIELDED SMD POWER INDUCTORS / FPI TYPE
ELECTRICAL CHARACTERISTICS FOR FPI1206

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1206-1R5 □	1.5	0.005	22.00
FPI1206-2R2 □	2.2	0.008	20.00
FPI1206-3R3 □	3.3	0.009	17.00
FPI1206-4R7 □	4.7	0.012	15.00
FPI1206-5R6 □	5.6	0.015	13.00
FPI1206-6R8 □	6.8	0.017	11.50
FPI1206-8R2 □	8.2	0.019	10.80
FPI1206-100 □	10	0.023	10.20
FPI1206-150 □	15	0.034	8.00
FPI1206-180 □	18	0.040	7.50
FPI1206-220 □	22	0.052	7.00
FPI1206-330 □	33	0.070	5.50
FPI1206-470 □	47	0.082	4.70
FPI1206-560 □	56	0.112	4.30
FPI1206-680 □	68	0.135	4.00
FPI1206-820 □	82	0.140	3.70
FPI1206-101 □	100	0.180	3.20
FPI1206-121 □	120	0.230	3.00
FPI1206-151 □	150	0.260	2.70
FPI1206-181 □	180	0.350	2.40
FPI1206-221 □	220	0.380	2.20
FPI1206-271 □	270	0.480	1.90
FPI1206-331 □	330	0.520	1.70
FPI1206-391 □	390	0.650	1.60
FPI1206-471 □	470	0.800	1.50
FPI1206-561 □	560	1.100	1.30
FPI1206-681 □	680	1.150	1.20
FPI1206-821 □	820	1.600	1.10
FPI1206-102 □	1000	1.700	1.00

* 100uH 以上 Test Frequency : 1KHZ/1V

* 100uH 以下 Test Frequency : 2.52MHZ/1V



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