

UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

FEATURES

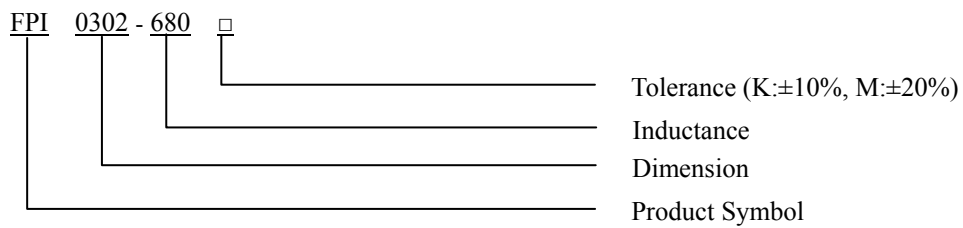
- ◆ Silver Plated Type
- ◆ High power and high saturation
- ◆ Ideal inductors for DC/DC conversion

APPLICATIONS

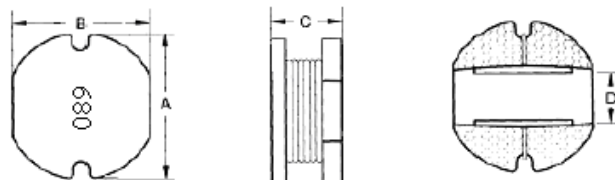
- ◆ LCD TV
- ◆ DC/DC converter
- ◆ Digital camera
- ◆ Portable communication equipment



ORDERING CODE



SHAPES



UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

DIMENSIONS (UNIT: mm)

Part No.	A	B	C	D (Ref.)
FPI 0311	3.3 ± 0.3	3.0 ± 0.3	1.1 ± 0.3	1.00
FPI 0315	3.3 ± 0.3	3.0 ± 0.3	1.5 ± 0.3	1.00
FPI 0302	3.3 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	1.00
FPI 0403	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	1.30
FPI 0519	5.8 ± 0.3	5.2 ± 0.3	1.8 ± 0.3	1.30
FPI 0502	5.8 ± 0.3	5.2 ± 0.3	2.5 ± 0.3	1.30
FPI 0503	5.8 ± 0.3	5.2 ± 0.3	3.5 ± 0.5	1.30
FPI 0504	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.3	1.30
FPI 0703	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.3	2.10
FPI 0705	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.3	2.10
FPI 1004	10.0 ± 0.3	9.0 ± 0.3	4.0 ± 0.3	3.10
FPI 1005	10.0 ± 0.4	9.0 ± 0.4	5.4 ± 0.3	3.10
FPI 1006	10.0 ± 0.4	9.0 ± 0.4	6.5 ± 0.3	3.10
FPI 1008	10.0 ± 0.4	9.0 ± 0.4	8.2 ± 0.3	3.10

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ELECTRICAL CHARACTERISTICS FOR FPI0311

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0311-1R0 □	1.0	0.060	2.00
FPI0311-2R2 □	2.2	0.150	1.70
FPI0311-2R7 □	2.7	0.150	1.60
FPI0311-3R3 □	3.3	0.170	1.50
FPI0311-4R7 □	4.7	0.300	1.40
FPI0311-6R8 □	6.8	0.420	1.00
FPI0311-100 □	10	0.800	1.00
FPI0311-220 □	22	1.500	0.60

ELECTRICAL CHARACTERISTICS FOR FPI0315

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0315-2R2 □	2.2	0.140	1.70
FPI0315-4R7 □	4.7	0.220	1.55
FPI0315-5R6 □	5.6	0.250	1.30
FPI0315-6R8 □	6.8	0.380	1.20
FPI0315-100 □	10	0.450	1.15
FPI0315-470 □	47	2.500	0.50

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ELECTRICAL CHARACTERISTICS FOR FPI0302

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0302-0R7 □	0.7	0.040	5.00
FPI0302-1R0 □	1.0	0.054	4.00
FPI0302-1R2 □	1.2	0.056	3.30
FPI0302-1R4 □	1.4	0.068	3.20
FPI0302-1R5 □	1.5	0.085	3.20
FPI0302-1R8 □	1.8	0.090	3.10
FPI0302-2R0 □	2.0	0.100	2.80
FPI0302-2R2 □	2.2	0.120	2.50
FPI0302-2R7 □	2.7	0.140	2.40
FPI0302-3R3 □	3.3	0.200	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
FPI0302-100 □	10	0.360	1.40
FPI0302-120 □	12	0.387	1.20
FPI0302-150 □	15	0.450	1.13
FPI0302-160 □	16	0.480	1.05
FPI0302-180 □	18	0.490	0.90
FPI0302-220 □	22	0.600	0.80
FPI0302-270 □	27	0.750	0.80
FPI0302-330 □	33	1.550	0.75
FPI0302-390 □	39	2.150	0.70
FPI0302-470 □	47	2.300	0.60
FPI0302-560 □	56	2.450	0.60
FPI0302-680 □	68	2.500	0.50
FPI0302-820 □	82	2.500	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	0.25
FPI0302-331 □	330	8.450	0.25
FPI0302-391 □	390	9.480	0.22
FPI0302-471 □	470	10.800	0.21
FPI0302-561 □	560	17.000	0.12

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ELECTRICAL CHARACTERISTICS FOR FPI0403

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0403-R25 □	0.25	0.010	10.00
FPI0403-0R5 □	0.50	0.020	8.00
FPI0403-1R0 □	1.00	0.049	7.00
FPI0403-1R2 □	1.20	0.051	5.50
FPI0403-1R4 □	1.40	0.056	4.50
FPI0403-1R5 □	1.50	0.057	4.00
FPI0403-1R8 □	1.80	0.064	3.90
FPI0403-2R2 □	2.20	0.065	3.70
FPI0403-2R7 □	2.70	0.070	3.50
FPI0403-3R0 □	3.00	0.075	3.30
FPI0403-3R3 □	3.30	0.087	3.00
FPI0403-3R9 □	3.90	0.090	2.60
FPI0403-4R7 □	4.70	0.094	2.40
FPI0403-5R6 □	5.60	0.150	2.20
FPI0403-6R8 □	6.80	0.160	1.90
FPI0403-8R2 □	8.20	0.170	1.80
FPI0403-100 □	10	0.182	1.50
FPI0403-120 □	12	0.210	1.50
FPI0403-150 □	15	0.235	1.30
FPI0403-180 □	18	0.340	1.20
FPI0403-200 □	20	0.350	1.00
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	0.50
FPI0403-820 □	82	1.220	0.50
FPI0403-101 □	100	1.340	0.48
FPI0403-121 □	120	1.460	0.48
FPI0403-151 □	150	1.850	0.40
FPI0403-181 □	180	2.180	0.35

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ELECTRICAL CHARACTERISTICS FOR FPI0403

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
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
FPI0403-152 □	1500	20.000	0.14
FPI0403-222 □	2200	25.500	0.10
FPI0403-472 □	4700	60.000	0.05

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
FPI0519-100 □	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
FPI0519-101 □	100	1.500	0.50
FPI0519-181 □	180	2.500	0.40

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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
FPI0502-301 □	300	4.000	0.38
FPI0502-471 □	470	5.000	0.35

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ELECTRICAL CHARACTERISTICS FOR FPI0503

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0503-R47 □	0.47	0.035	9.00
FPI0503-2R2 □	2.20	0.040	5.10
FPI0503-2R7 □	2.70	0.050	4.80
FPI0503-3R3 □	3.30	0.065	4.00
FPI0503-4R7 □	4.70	0.070	2.90
FPI0503-5R1 □	5.10	0.075	2.90
FPI0503-5R6 □	5.60	0.090	2.80
FPI0503-6R8 □	6.80	0.095	2.60
FPI0503-100 □	10	0.170	2.20
FPI0503-120 □	12	0.180	2.10
FPI0503-150 □	15	0.200	2.00
FPI0503-220 □	22	0.300	1.30
FPI0503-270 □	27	0.315	1.30
FPI0503-330 □	33	0.380	1.10
FPI0503-350 □	35	0.390	1.05
FPI0503-390 □	39	0.400	0.95
FPI0503-470 □	47	0.500	0.95
FPI0503-560 □	56	0.700	0.80
FPI0503-600 □	60	0.900	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
FPI0503-331 □	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-R47 □	0.47	0.010	10.00
FPI0504-R60 □	0.60	0.013	9.00
FPI0504-R90 □	0.90	0.018	7.80
FPI0504-1R0 □	1.00	0.020	7.70
FPI0504-1R2 □	1.20	0.025	6.50
FPI0504-1R5 □	1.50	0.025	6.00
FPI0504-1R7 □	1.70	0.025	6.00
FPI0504-2R0 □	2.00	0.030	5.50
FPI0504-2R2 □	2.20	0.035	5.20
FPI0504-2R5 □	2.50	0.040	5.10
FPI0504-2R6 □	2.60	0.043	5.00
FPI0504-2R7 □	2.70	0.045	5.00
FPI0504-3R3 □	3.30	0.045	4.20
FPI0504-3R6 □	3.60	0.055	4.10
FPI0504-3R9 □	3.90	0.055	4.00
FPI0504-4R7 □	4.70	0.060	3.00
FPI0504-5R0 □	5.00	0.060	3.00
FPI0504-5R6 □	5.60	0.065	2.90
FPI0504-6R8 □	6.80	0.065	2.70
FPI0504-8R2 □	8.20	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	1.40
FPI0504-270 □	27	0.200	1.40
FPI0504-330 □	33	0.230	1.20
FPI0504-390 □	39	0.300	1.00
FPI0504-470 □	47	0.310	1.00
FPI0504-500 □	50	0.350	0.90
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	0.40

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ELECTRICAL CHARACTERISTICS FOR FPI0504

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0504-301 □	300	1.900	0.40
FPI0504-331 □	330	2.000	0.40
FPI0504-391 □	390	2.200	0.40
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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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
FPI0703-4R1 □	4.1	0.045	4.80
FPI0703-4R7 □	4.7	0.045	4.50
FPI0703-5R6 □	5.6	0.050	4.00
FPI0703-6R8 □	6.8	0.065	4.00
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
FPI0703-122 □	1200	6.350	0.20
FPI0703-332 □	3300	15.000	0.15
FPI0703-502 □	5000	23.000	0.14
FPI0703-682 □	6800	33.000	0.13
FPI0703-902 □	9000	45.000	0.11
FPI0703-103 □	10000	50.000	0.10

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ELECTRICAL CHARACTERISTICS FOR FPI0705

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0705-1R0 □	1.0	0.020	12.00
FPI0705-1R2 □	1.2	0.023	9.00
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	0.035	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
FPI0705-200 □	20	0.120	2.50
FPI0705-220 □	22	0.130	2.30
FPI0705-270 □	27	0.130	2.30
FPI0705-330 □	33	0.150	2.10
FPI0705-390 □	39	0.160	2.00
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	1.10
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	0.40
FPI0705-681 □	680	2.000	0.40
FPI0705-821 □	820	2.570	0.37
FPI0705-102 □	1000	4.000	0.35
FPI0705-222 □	2200	6.500	0.28
FPI0705-332 □	3300	11.000	0.28
FPI0705-402 □	4000	11.000	0.21
FPI0705-502 □	5000	13.500	0.20

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ELECTRICAL CHARACTERISTICS FOR FPI0705

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0705-682 □	6800	22.000	0.20
FPI0705-103 □	10000	34.000	0.10
FPI0705-253 □	25000	95.000	0.10

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	3.00
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
FPI1004-221 □	220	0.770	0.80
FPI1004-471 □	470	1.600	0.55
FPI1004-561 □	560	1.700	0.50

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ELECTRICAL CHARACTERISTICS FOR FPI1005

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1005-R82 □	0.82	0.015	17.00
FPI1005-0R5 □	0.50	0.015	16.50
FPI1005-1R0 □	1.00	0.020	16.00
FPI1005-1R5 □	1.50	0.020	12.30
FPI1005-2R2 □	2.20	0.020	10.20
FPI1005-3R3 □	3.30	0.031	8.00
FPI1005-3R9 □	3.90	0.032	7.50
FPI1005-4R7 □	4.70	0.033	6.30
FPI1005-5R0 □	5.00	0.033	6.30
FPI1005-5R6 □	5.60	0.034	5.90
FPI1005-6R8 □	6.80	0.038	5.50
FPI1005-8R2 □	8.20	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	1.73
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
FPI1005-301 □	300	0.800	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

UNSHIELDED SMD POWER INDUCTORS / FPI TYPE

ELECTRICAL CHARACTERISTICS FOR FPI1006

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1006-1R5 □	1.5	0.020	20.0
FPI1006-3R3 □	3.3	0.030	15.0
FPI1006-100 □	10	0.050	9.20
FPI1006-220 □	22	0.075	6.20
FPI1006-330 □	33	0.100	4.50
FPI1006-390 □	39	0.100	3.80
FPI1006-470 □	47	0.140	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
FPI1006-102 □	1000	3.500	0.45
FPI1006-332 □	3300	7.500	0.32

ELECTRICAL CHARACTERISTICS FOR FPI1008

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1008-6R8 □	6.8	0.026	9.50
FPI1008-330 □	33	0.055	4.50
FPI1008-360 □	36	0.085	4.00
FPI1008-470 □	47	0.111	2.50
FPI1008-680 □	68	0.150	1.80
FPI1008-581 □	580	0.810	1.00
FPI1008-681 □	680	1.180	0.95
FPI1008-751 □	750	1.300	0.90
FPI1008-102 □	1000	1.650	0.60

* 100uH 以上 Test Frequency : 1KHZ/1V

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