

SHIELDED SMD POWER INDUCTORS / FPI (S) TYPE

FEATURES

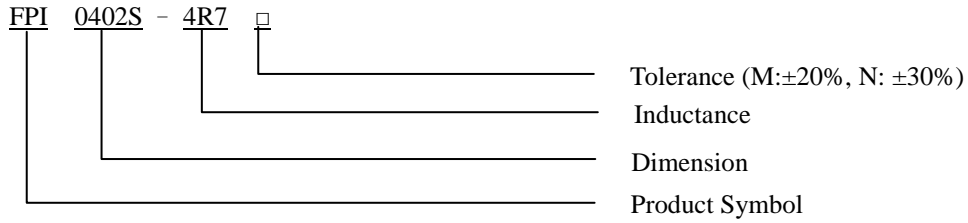
- ◆ Excellent solderability and high Heat resistance
- ◆ Excellent terminal strength construction
- ◆ Shielded with magnetic resin
- ◆ Closed magnetic design



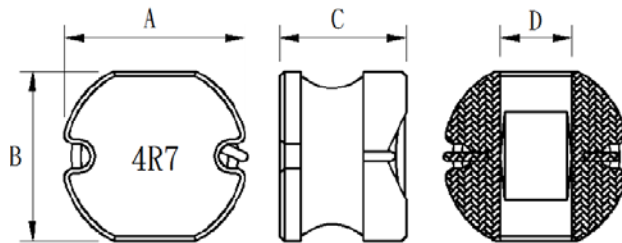
APPLICATIONS

- ◆ Power supply for VTRs.
- ◆ Portable communication equipment.
- ◆ Notebook PCs.
- ◆ LCD televisions.
- ◆ DC/DC converters, etc.

ORDERING CODE



SHAPES



SHIELDED SMD POWER INDUCTORS / FPI (S) TYPE

DIMENSIONS (UNIT: mm)

Part No.	A	B	C	D (Ref.)
FPI 0311S	3.3 ± 0.3	3.0 ± 0.3	1.1 ± 0.3	1.00
FPI 0315S	3.3 ± 0.3	3.0 ± 0.3	1.5 ± 0.3	1.00
FPI 0302S	3.3 ± 0.3	3.0 ± 0.3	2.1 ± 0.3	1.00
FPI 0402S	4.5 ± 0.3	4.0 ± 0.3	2.1 ± 0.3	1.20
FPI 0403S	4.5 ± 0.3	4.0 ± 0.3	3.2 ± 0.3	1.20
FPI 0519S	5.8 ± 0.3	5.2 ± 0.3	2.1 ± 0.3	1.30
FPI 0502S	5.8 ± 0.3	5.2 ± 0.3	2.5 ± 0.3	1.30
FPI 0503S	5.8 ± 0.3	5.2 ± 0.3	3.0 ± 0.3	1.30
FPI 0504S	5.8 ± 0.3	5.2 ± 0.3	4.5 ± 0.3	1.30
FPI 0703S	7.8 ± 0.3	7.0 ± 0.3	3.5 ± 0.3	2.10
FPI 0705S	7.8 ± 0.3	7.0 ± 0.3	5.0 ± 0.3	2.10
FPI 1004S	10.0 ± 0.3	9.0 ± 0.3	4.0 ± 0.4	2.90
FPI 1005S	10.0 ± 0.3	9.0 ± 0.3	5.4 ± 0.4	2.90
FPI 1006S	10.0 ± 0.4	9.0 ± 0.4	6.5 ± 0.3	3.10
FPI 1008S	10.0 ± 0.4	9.0 ± 0.4	8.2 ± 0.3	3.10

ELECTRICAL CHARACTERISTICS FOR FPI0311S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0311S-1R0 □	1.0	0.060	2.00
FPI0311S-2R2 □	2.2	0.140	1.70
FPI0311S-2R7 □	2.7	0.150	1.60
FPI0311S-3R3 □	3.3	0.170	1.50
FPI0311S-4R7 □	4.7	0.300	1.40
FPI0311S-6R8 □	6.8	0.420	1.20
FPI0311S-100 □	10	0.800	1.00
FPI0311S-220 □	22	1.500	0.60

ELECTRICAL CHARACTERISTICS FOR FPI0315S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0315S-2R2 □	2.2	0.140	1.70
FPI0315S-4R7 □	4.7	0.220	1.55
FPI0315S-5R6 □	5.6	0.250	1.30
FPI0315S-6R8 □	6.8	0.380	1.20
FPI0315S-100 □	10	0.450	1.15
FPI0315S-470 □	47	2.500	0.50

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ELECTRICAL CHARACTERISTICS FOR FPI0302S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0302S-1R0 □	1.0	0.054	4.00
FPI0302S-1R5 □	1.5	0.085	3.20
FPI0302S-2R2 □	2.2	0.120	2.50
FPI0302S-2R7 □	2.7	0.140	2.40
FPI0302S-3R3 □	3.3	0.180	2.30
FPI0302S-4R7 □	4.7	0.200	2.20
FPI0302S-5R6 □	5.6	0.210	1.70
FPI0302S-6R8 □	6.8	0.350	1.50
FPI0302S-100 □	10	0.360	1.40
FPI0302S-150 □	15	0.450	1.13
FPI0302S-180 □	18	0.490	0.90
FPI0302S-220 □	22	0.600	0.80
FPI0302S-270 □	27	0.750	0.70
FPI0302S-470 □	47	1.200	0.50
FPI0302S-680 □	68	1.900	0.45

ELECTRICAL CHARACTERISTICS FOR FPI0402S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0402S-1R0 □	1.0	0.020	5.40
FPI0402S-1R5 □	1.5	0.025	4.57
FPI0402S-2R2 □	2.2	0.036	3.50
FPI0402S-3R3 □	3.3	0.051	2.80
FPI0402S-4R7 □	4.7	0.063	2.60
FPI0402S-6R8 □	6.8	0.108	2.05
FPI0402S-100 □	10	0.140	1.70
FPI0402S-150 □	15	0.230	1.35
FPI0402S-220 □	22	0.360	1.17
FPI0402S-330 □	33	0.530	0.94
FPI0402S-470 □	47	0.760	0.79
FPI0402S-680 □	68	0.860	0.65
FPI0402S-101 □	100	1.310	0.54

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ELECTRICAL CHARACTERISTICS FOR FPI0403S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0403S-1R0 □	1.0	0.014	6.00
FPI0403S-1R5 □	1.5	0.020	4.84
FPI0403S-2R2 □	2.2	0.030	4.40
FPI0403S-3R3 □	3.3	0.040	3.30
FPI0403S-4R7 □	4.7	0.060	2.90
FPI0403S-5R6 □	5.6	0.065	2.60
FPI0403S-6R8 □	6.8	0.090	2.45
FPI0403S-8R2 □	8.2	0.095	2.10
FPI0403S-100 □	10	0.100	1.95
FPI0403S-150 □	15	0.190	1.65
FPI0403S-220 □	22	0.220	1.30
FPI0403S-330 □	33	0.330	1.10
FPI0403S-470 □	47	0.440	0.95
FPI0403S-680 □	68	0.870	0.72
FPI0403S-101 □	100	1.150	0.60

ELECTRICAL CHARACTERISTICS FOR FPI0519S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0519S-1R0 □	1.0	0.035	5.70
FPI0519S-2R2 □	2.2	0.062	4.20
FPI0519S-3R9 □	3.9	0.073	3.30
FPI0519S-4R7 □	4.7	0.080	2.50
FPI0519S-6R8 □	6.8	0.170	2.40
FPI0519S-100 □	10	0.180	1.80
FPI0519S-220 □	22	0.450	1.20
FPI0519S-470 □	47	0.750	0.80
FPI0519S-560 □	56	0.800	0.60
FPI0519S-680 □	68	1.150	0.55
FPI0519S-101 □	100	1.500	0.50
FPI0519S-151 □	150	2.000	0.45
FPI0519S-181 □	180	2.500	0.40

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ELECTRICAL CHARACTERISTICS FOR FPI0502S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0502S-1R0 □	1.0	0.020	4.10
FPI0502S-1R5 □	1.5	0.026	3.80
FPI0502S-2R2 □	2.2	0.032	3.20
FPI0502S-3R3 □	3.3	0.043	2.55
FPI0502S-4R7 □	4.7	0.057	2.50
FPI0502S-6R8 □	6.8	0.083	2.05
FPI0502S-100 □	10	0.110	1.70
FPI0502S-150 □	15	0.170	1.35
FPI0502S-220 □	22	0.230	1.15

ELECTRICAL CHARACTERISTICS FOR FPI0503S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0503S-1R0 □	1.0	0.015	6.60
FPI0503S-1R5 □	1.5	0.020	5.00
FPI0503S-2R2 □	2.2	0.023	4.20
FPI0503S-3R3 □	3.3	0.030	3.60
FPI0503S-4R7 □	4.7	0.035	3.10
FPI0503S-6R8 □	6.8	0.052	2.50
FPI0503S-100 □	10	0.070	2.10
FPI0503S-150 □	15	0.125	1.60
FPI0503S-220 □	22	0.180	1.40
FPI0503S-330 □	33	0.225	1.19
FPI0503S-470 □	47	0.325	0.95

ELECTRICAL CHARACTERISTICS FOR FPI0504S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0504S-1R0 □	1.0	0.014	8.50
FPI0504S-1R5 □	1.5	0.018	7.60
FPI0504S-1R8 □	1.8	0.020	7.00
FPI0504S-2R2 □	2.2	0.025	6.00
FPI0504S-3R3 □	3.3	0.030	5.00
FPI0504S-4R7 □	4.7	0.038	4.00
FPI0504S-6R8 □	6.8	0.047	3.80
FPI0504S-8R2 □	8.2	0.060	3.30
FPI0504S-100 □	10	0.070	3.00
FPI0504S-150 □	15	0.100	2.30
FPI0504S-220 □	22	0.140	1.90
FPI0504S-330 □	33	0.190	1.50
FPI0504S-470 □	47	0.260	1.30
FPI0504S-680 □	68	0.350	1.00
FPI0504S-101 □	100	0.490	0.80

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ELECTRICAL CHARACTERISTICS FOR FPI0703S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0703S-1R0 □	1.0	0.010	11.00
FPI0703S-1R5 □	1.5	0.011	8.20
FPI0703S-2R2 □	2.2	0.013	7.40
FPI0703S-3R3 □	3.3	0.021	5.50
FPI0703S-4R7 □	4.7	0.024	4.70
FPI0703S-6R8 □	6.8	0.033	4.20
FPI0703S-100 □	10	0.050	3.40
FPI0703S-150 □	15	0.070	2.70
FPI0703S-220 □	22	0.100	2.20
FPI0703S-330 □	33	0.145	1.90
FPI0703S-470 □	47	0.190	1.50
FPI0703S-680 □	68	0.280	1.20
FPI0703S-101 □	100	0.400	1.00

ELECTRICAL CHARACTERISTICS FOR FPI0705S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI0705S-1R0 □	1.0	0.006	13.00
FPI0705S-1R5 □	1.5	0.007	11.00
FPI0705S-2R2 □	2.2	0.012	9.00
FPI0705S-3R3 □	3.3	0.015	7.00
FPI0705S-4R7 □	4.7	0.022	5.60
FPI0705S-6R8 □	6.8	0.027	4.70
FPI0705S-100 □	10	0.042	3.80
FPI0705S-150 □	15	0.057	3.20
FPI0705S-220 □	22	0.079	2.60
FPI0705S-330 □	33	0.104	2.20
FPI0705S-470 □	47	0.140	1.80
FPI0705S-680 □	68	0.200	1.50
FPI0705S-820 □	82	0.250	1.40
FPI0705S-101 □	100	0.300	1.30
FPI0705S-151 □	150	0.480	1.00
FPI0705S-221 □	220	0.680	0.84
FPI0705S-331 □	330	1.030	0.68
FPI0705S-471 □	470	1.540	0.57

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ELECTRICAL CHARACTERISTICS FOR FPI1004S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1004S-1R0 □	1.0	0.006	14.00
FPI1004S-1R5 □	1.5	0.008	11.00
FPI1004S-2R2 □	2.2	0.011	9.00
FPI1004S-3R3 □	3.3	0.014	7.70
FPI1004S-4R7 □	4.7	0.018	6.70
FPI1004S-6R8 □	6.8	0.027	5.30
FPI1004S-100 □	10	0.039	4.30
FPI1004S-150 □	15	0.055	3.50
FPI1004S-220 □	22	0.077	2.90
FPI1004S-330 □	33	0.100	2.40
FPI1004S-470 □	47	0.160	2.00
FPI1004S-680 □	68	0.250	1.60
FPI1004S-101 □	100	0.350	1.40
FPI1004S-151 □	150	0.520	1.10
FPI1004S-221 □	220	0.710	0.94
FPI1004S-331 □	330	1.190	0.75
FPI1004S-471 □	470	1.600	0.64

ELECTRICAL CHARACTERISTICS FOR FPI1005S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1005S-1R5 □	1.5	0.008	12.00
FPI1005S-2R2 □	2.2	0.010	9.20
FPI1005S-3R3 □	3.3	0.013	7.50
FPI1005S-4R7 □	4.7	0.022	7.00
FPI1005S-6R8 □	6.8	0.027	5.70
FPI1005S-100 □	10	0.035	4.80
FPI1005S-150 □	15	0.050	3.80
FPI1005S-220 □	22	0.073	3.00
FPI1005S-330 □	33	0.093	2.50
FPI1005S-470 □	47	0.128	2.10
FPI1005S-560 □	56	0.150	2.00
FPI1005S-680 □	68	0.210	1.80
FPI1005S-101 □	100	0.300	1.50
FPI1005S-151 □	150	0.500	1.20
FPI1005S-221 □	220	0.750	1.00
FPI1005S-331 □	330	1.100	0.80

SHIELDED SMD POWER INDUCTORS / FPI(S) TYPE

ELECTRICAL CHARACTERISTICS FOR FPI1006S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1006S-1R5 □	1.5	0.020	20.00
FPI1006S-3R3 □	3.3	0.030	15.00
FPI1006S-100 □	10	0.050	9.20
FPI1006S-220 □	22	0.075	6.20
FPI1006S-330 □	33	0.100	4.50
FPI1006S-390 □	39	0.110	3.80
FPI1006S-470 □	47	0.140	2.40
FPI1006S-560 □	56	0.160	2.00
FPI1006S-680 □	68	0.200	1.75
FPI1006S-101 □	100	0.218	1.70
FPI1006S-121 □	120	0.280	1.60
FPI1006S-151 □	150	0.330	1.50
FPI1006S-221 □	220	0.600	1.40
FPI1006S-102 □	1000	3.500	0.45

ELECTRICAL CHARACTERISTICS FOR FPI1008S

Part No.	Inductance (uH)	RDC (Ω)	IDC (A)
FPI1008S-6R8 □	6.8	0.026	9.50
FPI1008S-330 □	33	0.055	4.50
FPI1008S-470 □	47	0.111	2.50
FPI1008S-680 □	68	0.150	1.80
FPI1008S-581 □	580	0.810	1.00
FPI1008S-681 □	680	1.180	0.95
FPI1008S-751 □	750	1.300	0.90
FPI1008S-102 □	1000	1.650	0.60

* Test Frequency : 100KHZ/0.25V.



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