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On-Board Type Coils / Chip Inductors

SMD Type Power Inductors FPI Series

FPI Series

Unshielded Power Inductors.



■ Features

- 1.Excellent solderability and high heat resistance
- 2.Excellent terminal strength construction.
- 3.Packed in embossed carrier tape and can be used by automatic mounting machine.
- 4.The products contain no lead and also support lead-free soldering.

■ Applications

Power supply for VCR,OA equipment ,LCD television set notebook, DC to DC converters, DC to AC inverters etc.

■ Lead Free Part Numbering

FPI

0302

F

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1R0

M

A

B

C

D

E

A : Series

B : Dimension

C : Lead Free Code

D : Inductance

E : Inductance Tolerance

A x C

1R0=1.0uH

K=± 10%, M=± 20%

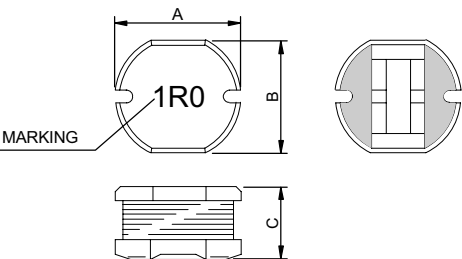
● 特徵

- 1. 絕佳的焊錫性及高溫耐熱性。
- 2. 絕佳的端面強度結構。
- 3. 捲軸包裝，可用於自動插件機器。
- 4. 產品無鉛適合無鉛鉚錫。

● 應用

VCR、辦公室自動設備、液晶電視機、筆記型電腦、直流-直流整流器、直流-交流換流器等的電源供應器。

■ Dimensions



Series	A	B	C
FPI 0302	3.50±0.3	3.00±0.3	2.10±0.3
FPI 0403	4.50±0.3	4.00±0.3	3.20±0.3
FPI 0502	5.80±0.3	5.20±0.3	2.00±0.3
FPI 0504	5.80±0.3	5.20±0.3	4.50±0.3
FPI 0703	7.80±0.3	7.00±0.3	3.50±0.3
FPI 0705	7.80±0.3	7.00±0.3	5.00±0.3
FPI 1004	10.0±0.3	9.00±0.3	4.00±0.3
FPI 1005	10.0±0.3	9.00±0.3	5.40±0.3

Unit:mm

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■ FPI 0302 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI0302-1R0M	1.0 $\pm$ 20%	1V/7.96M	0.04	1.50
FPI0302-1R4M	1.4 $\pm$ 20%	1V/7.96M	0.05	1.50
FPI0302-1R8M	1.8 $\pm$ 20%	1V/7.96M	0.06	0.80
FPI0302-2R2M	2.2 $\pm$ 20%	1V/7.96M	0.08	0.75
FPI0302-2R7M	2.7 $\pm$ 20%	1V/7.96M	0.10	0.75
FPI0302-3R3M	3.3 $\pm$ 20%	1V/7.96M	0.15	0.60
FPI0302-3R9M	3.9 $\pm$ 20%	1V/7.96M	0.20	0.50
FPI0302-4R7M	4.7 $\pm$ 20%	1V/7.96M	0.20	0.50
FPI0302-5R6M	5.6 $\pm$ 20%	1V/7.96M	0.23	0.45
FPI0302-6R8M	6.8 $\pm$ 20%	1V/7.96M	0.25	0.40
FPI0302-8R2M	8.2 $\pm$ 20%	1V/7.96M	0.30	0.40
FPI0302-100M	10 $\pm$ 20%	1V/2.52M	0.35	0.35
FPI0302-120M	12 $\pm$ 20%	1V/2.52M	0.40	0.35
FPI0302-150M	15 $\pm$ 20%	1V/2.52M	0.50	0.30
FPI0302-180M	18 $\pm$ 20%	1V/2.52M	0.55	0.30
FPI0302-220M	22 $\pm$ 20%	1V/2.52M	0.60	0.30
FPI0302-270M	27 $\pm$ 20%	1V/2.52M	0.70	0.30
FPI0302-330M	33 $\pm$ 20%	1V/2.52M	1.0	0.25
FPI0302-390M	39 $\pm$ 20%	1V/2.52M	1.2	0.25
FPI0302-470M	47 $\pm$ 20%	1V/2.52M	1.5	0.20
FPI0302-560M	56 $\pm$ 20%	1V/2.52M	1.8	0.20
FPI0302-680M	68 $\pm$ 20%	1V/2.52M	2.0	0.18
FPI0302-820M	82 $\pm$ 20%	1V/2.52M	2.5	0.16
FPI0302-101M	100 $\pm$ 20%	1V/1K	3.0	0.15
FPI0302-121M	120 $\pm$ 20%	1V/1K	3.5	0.14
FPI0302-151M	150 $\pm$ 20%	1V/1K	4.0	0.13
FPI0302-181M	180 $\pm$ 20%	1V/1K	5.0	0.12
FPI0302-221M	220 $\pm$ 20%	1V/1K	5.5	0.10
FPI0302-271M	270 $\pm$ 20%	1V/1K	6.0	0.10
FPI0302-331M	330 $\pm$ 20%	1V/1K	7.0	0.10
FPI0302-391M	390 $\pm$ 20%	1V/1K	8.0	0.10
FPI0302-471M	470 $\pm$ 20%	1V/1K	12	0.09

■ FPI 0403 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI0403-1R0M	1.0 $\pm$ 20%	1V/7.96M	0.03	4.0
FPI0403-1R4M	1.4 $\pm$ 20%	1V/7.96M	0.04	3.5
FPI0403-1R8M	1.8 $\pm$ 20%	1V/7.96M	0.05	3.0
FPI0403-2R2M	2.2 $\pm$ 20%	1V/7.96M	0.06	2.6
FPI0403-2R7M	2.7 $\pm$ 20%	1V/7.96M	0.06	2.2
FPI0403-3R3M	3.3 $\pm$ 20%	1V/7.96M	0.07	2.0
FPI0403-3R9M	3.9 $\pm$ 20%	1V/7.96M	0.07	2.0
FPI0403-4R7M	4.7 $\pm$ 20%	1V/7.96M	0.08	1.9
FPI0403-5R6M	5.6 $\pm$ 20%	1V/7.96M	0.12	1.8
FPI0403-6R8M	6.8 $\pm$ 20%	1V/7.96M	0.14	1.6
FPI0403-8R2M	8.2 $\pm$ 20%	1V/7.96M	0.15	1.4
FPI0403-100M	10 $\pm$ 20%	1V/2.52M	0.19	1.1
FPI0403-120M	12 $\pm$ 20%	1V/2.52M	0.21	1.1

Other non standard inductance value are available to meet your exact requirements

Note:1.Inductance measured by LCR Meter HP-4291A 2. DCR measured by Milliohm meter HP-4338A

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■ FPI 0403 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI0403-150M	15 $\pm$ 20%	1V/2.52M	0.25	1.0
FPI0403-180M	18 $\pm$ 20%	1V/2.52M	0.3	1.0
FPI0403-220M	22 $\pm$ 20%	1V/2.52M	0.35	0.80
FPI0403-270M	27 $\pm$ 20%	1V/2.52M	0.45	0.75
FPI0403-330M	33 $\pm$ 20%	1V/2.52M	0.6	0.70
FPI0403-390M	39 $\pm$ 20%	1V/2.52M	0.7	0.65
FPI0403-470M	47 $\pm$ 20%	1V/2.52M	0.8	0.60
FPI0403-560M	56 $\pm$ 20%	1V/2.52M	0.85	0.55
FPI0403-680M	68 $\pm$ 20%	1V/2.52M	1	0.50
FPI0403-820M	82 $\pm$ 20%	1V/2.52M	1.1	0.46
FPI0403-101M	100 $\pm$ 20%	1V/1K	1.2	0.22
FPI0403-121M	120 $\pm$ 20%	1V/1K	1.6	0.20
FPI0403-151M	150 $\pm$ 20%	1V/1K	2	0.20
FPI0403-181M	180 $\pm$ 20%	1V/1K	3	0.20
FPI0403-221M	220 $\pm$ 20%	1V/1K	3	0.20
FPI0403-271M	270 $\pm$ 20%	1V/1K	4	0.16
FPI0403-331M	330 $\pm$ 20%	1V/1K	4	0.14
FPI0403-391M	390 $\pm$ 20%	1V/1K	5	0.12
FPI0403-471M	470 $\pm$ 20%	1V/1K	6	0.12
FPI0403-561M	560 $\pm$ 20%	1V/1K	7	0.10

■ FPI 0502 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI0502-1R0M	1.0 $\pm$ 20%	1V/7.96M	0.03	1.50
FPI0502-1R4M	1.4 $\pm$ 20%	1V/7.96M	0.04	1.50
FPI0502-1R8M	1.8 $\pm$ 20%	1V/7.96M	0.05	1.50
FPI0502-2R2M	2.2 $\pm$ 20%	1V/7.96M	0.06	1.50
FPI0502-2R7M	2.7 $\pm$ 20%	1V/7.96M	0.07	1.50
FPI0502-3R3M	3.3 $\pm$ 20%	1V/7.96M	0.08	1.50
FPI0502-3R9M	3.9 $\pm$ 20%	1V/7.96M	0.09	1.00
FPI0502-4R7M	4.7 $\pm$ 20%	1V/7.96M	0.10	1.00
FPI0502-5R6M	5.6 $\pm$ 20%	1V/7.96M	0.11	1.00
FPI0502-6R8M	6.8 $\pm$ 20%	1V/7.96M	0.14	0.70
FPI0502-8R2M	8.2 $\pm$ 20%	1V/7.96M	0.15	0.65
FPI0502-100M	10 $\pm$ 20%	1V/2.52M	0.3	0.60
FPI0502-120M	12 $\pm$ 20%	1V/2.52M	0.35	0.60
FPI0502-150M	15 $\pm$ 20%	1V/2.52M	0.4	0.55
FPI0502-180M	18 $\pm$ 20%	1V/2.52M	0.45	0.50
FPI0502-220M	22 $\pm$ 20%	1V/2.52M	0.5	0.50
FPI0502-270M	27 $\pm$ 20%	1V/2.52M	0.55	0.45
FPI0502-330M	33 $\pm$ 20%	1V/2.52M	0.6	0.40
FPI0502-390M	39 $\pm$ 20%	1V/2.52M	0.7	0.35
FPI0502-470M	47 $\pm$ 20%	1V/2.52M	0.8	0.30
FPI0502-560M	56 $\pm$ 20%	1V/2.52M	0.9	0.25
FPI0502-680M	68 $\pm$ 20%	1V/2.52M	1.2	0.25
FPI0502-820M	82 $\pm$ 20%	1V/2.52M	1.5	0.22
FPI0502-101M	100 $\pm$ 20%	1V/1K	2.0	0.21
FPI0502-121M	120 $\pm$ 20%	1V/1K	3	0.20

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Note:1.Inductance measured by LCR Meter HP-4291A 2. DCR measured by Milliohm meter HP-4338A

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■ FPI 0502 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI0502-151M	150 $\pm$ 20%	1V/1K	4	0.18
FPI0502-181M	180 $\pm$ 20%	1V/1K	4	0.15
FPI0502-221M	220 $\pm$ 20%	1V/1K	4.5	0.15
FPI0502-271M	270 $\pm$ 20%	1V/1K	5	0.15
FPI0502-331M	330 $\pm$ 20%	1V/1K	6	0.14
FPI0502-391M	390 $\pm$ 20%	1V/1K	6.5	0.14
FPI0502-471M	470 $\pm$ 20%	1V/1K	7	0.12
FPI0502-561M	560 $\pm$ 20%	1V/1K	8	0.12

■ FPI 0504 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI0504-1R0M	1.0 $\pm$ 20%	1V/7.96M	0.018	3.50
FPI0504-1R4M	1.4 $\pm$ 20%	1V/7.96M	0.02	3.50
FPI0504-1R8M	1.8 $\pm$ 20%	1V/7.96M	0.025	3.00
FPI0504-2R2M	2.2 $\pm$ 20%	1V/7.96M	0.03	2.80
FPI0504-2R7M	2.7 $\pm$ 20%	1V/7.96M	0.035	2.60
FPI0504-3R3M	3.3 $\pm$ 20%	1V/7.96M	0.04	2.50
FPI0504-3R9M	3.9 $\pm$ 20%	1V/7.96M	0.05	2.30
FPI0504-4R7M	4.7 $\pm$ 20%	1V/7.96M	0.06	2.60
FPI0504-5R6M	5.6 $\pm$ 20%	1V/7.96M	0.07	2.40
FPI0504-6R8M	6.8 $\pm$ 20%	1V/7.96M	0.08	2.20
FPI0504-8R2M	8.2 $\pm$ 20%	1V/7.96M	0.08	2.00
FPI0504-100M	10 $\pm$ 20%	1V/2.52M	0.09	1.80
FPI0504-120M	12 $\pm$ 20%	1V/2.52M	0.1	1.60
FPI0504-150M	15 $\pm$ 20%	1V/2.52M	0.12	1.50
FPI0504-180M	18 $\pm$ 20%	1V/2.52M	0.15	1.40
FPI0504-220M	22 $\pm$ 20%	1V/2.52M	0.18	1.30
FPI0504-270M	27 $\pm$ 20%	1V/2.52M	0.22	1.20
FPI0504-330M	33 $\pm$ 20%	1V/2.52M	0.26	1.00
FPI0504-390M	39 $\pm$ 20%	1V/2.52M	0.30	0.90
FPI0504-470M	47 $\pm$ 20%	1V/2.52M	0.35	0.85
FPI0504-560M	56 $\pm$ 20%	1V/2.52M	0.40	0.80
FPI0504-680M	68 $\pm$ 20%	1V/2.52M	0.45	0.70
FPI0504-820M	82 $\pm$ 20%	1V/2.52M	0.50	0.70
FPI0504-101M	100 $\pm$ 20%	1V/1K	0.70	0.60
FPI0504-121M	120 $\pm$ 20%	1V/1K	0.75	0.60
FPI0504-151M	150 $\pm$ 20%	1V/1K	0.90	0.55
FPI0504-181M	180 $\pm$ 20%	1V/1K	1.1	0.50
FPI0504-221M	220 $\pm$ 20%	1V/1K	1.2	0.40
FPI0504-271M	270 $\pm$ 20%	1V/1K	1.5	0.25
FPI0504-331M	330 $\pm$ 20%	1V/1K	3	0.22
FPI0504-391M	390 $\pm$ 20%	1V/1K	3.5	0.20
FPI0504-471M	470 $\pm$ 20%	1V/1K	4	0.19
FPI0504-561M	560 $\pm$ 20%	1V/1K	4	0.18
FPI0504-681M	680 $\pm$ 20%	1V/1K	4.5	0.15

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■ FPI 0703 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI 0703-100M	10 $\pm$ 20%	1V/2.52M	0.0803	1.44
FPI 0703-120M	12 $\pm$ 20%	1V/2.52M	0.0897	1.39
FPI 0703-150M	15 $\pm$ 20%	1V/2.52M	0.1040	1.24
FPI 0703-180M	18 $\pm$ 20%	1V/2.52M	0.1110	1.12
FPI 0703-220M	22 $\pm$ 20%	1V/2.52M	0.1290	1.07
FPI 0703-270M	27 $\pm$ 20%	1V/2.52M	0.1530	0.97
FPI 0703-330M	33 $\pm$ 20%	1V/2.52M	0.1700	0.85
FPI 0703-390M	39 $\pm$ 20%	1V/2.52M	0.2170	0.74
FPI 0703-470M	47 $\pm$ 20%	1V/2.52M	0.2520	0.68
FPI 0703-560K	56 $\pm$ 10%	1V/2.52M	0.2820	0.64
FPI 0703-680K	68 $\pm$ 10%	1V/2.52M	0.3320	0.59
FPI 0703-820K	82 $\pm$ 10%	1V/2.52M	0.4060	0.54
FPI 0703-101K	100 $\pm$ 10%	1V/1K	0.4810	0.51
FPI 0703-121K	120 $\pm$ 10%	1V/1K	0.5360	0.49
FPI 0703-151K	150 $\pm$ 10%	1V/1K	0.7550	0.40
FPI 0703-181K	180 $\pm$ 10%	1V/1K	1.0220	0.36
FPI 0703-221K	220 $\pm$ 10%	1V/1K	1.2000	0.31
FPI 0703-271K	270 $\pm$ 10%	1V/1K	1.3060	0.29
FPI 0703-331K	330 $\pm$ 10%	1V/1K	1.4950	0.28

■ FPI 0705 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI 0705-100M	10 $\pm$ 20%	1V/2.52M	0.07	2.30
FPI 0705-120M	12 $\pm$ 20%	1V/2.52M	0.08	2.00
FPI 0705-150M	15 $\pm$ 20%	1V/2.52M	0.09	1.80
FPI 0705-180M	18 $\pm$ 20%	1V/2.52M	0.10	1.60
FPI 0705-220M	22 $\pm$ 20%	1V/2.52M	0.11	1.50
FPI 0705-270M	27 $\pm$ 20%	1V/2.52M	0.12	1.30
FPI 0705-330M	33 $\pm$ 20%	1V/2.52M	0.13	1.20
FPI 0705-390M	39 $\pm$ 20%	1V/2.52M	0.16	1.10
FPI 0705-470K	47 $\pm$ 10%	1V/2.52M	0.18	1.10
FPI 0705-560K	56 $\pm$ 10%	1V/2.52M	0.24	0.94
FPI 0705-680K	68 $\pm$ 10%	1V/2.52M	0.28	0.85
FPI 0705-820K	82 $\pm$ 10%	1V/2.52M	0.37	0.78
FPI 0705-101K	100 $\pm$ 10%	1V/1K	0.43	0.72
FPI 0705-121K	120 $\pm$ 10%	1V/1K	0.47	0.66
FPI 0705-151K	150 $\pm$ 10%	1V/1K	0.64	0.58
FPI 0705-181K	180 $\pm$ 10%	1V/1K	0.71	0.51
FPI 0705-221K	220 $\pm$ 10%	1V/1K	0.96	0.49
FPI 0705-271K	270 $\pm$ 10%	1V/1K	1.11	0.42
FPI 0705-331K	330 $\pm$ 10%	1V/1K	1.26	0.40
FPI 0705-391K	390 $\pm$ 10%	1V/1K	1.77	0.36
FPI 0705-471K	470 $\pm$ 10%	1V/1K	1.96	0.34

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■ FPI 1004 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI 1004-100M	10 $\pm$ 20%	1V/2.52M	0.053	2.38
FPI 1004-120M	12 $\pm$ 20%	1V/2.52M	0.061	2.13
FPI 1004-150M	15 $\pm$ 20%	1V/2.52M	0.070	1.87
FPI 1004-180M	18 $\pm$ 20%	1V/2.52M	0.081	1.73
FPI 1004-220M	22 $\pm$ 20%	1V/2.52M	0.088	1.60
FPI 1004-270M	27 $\pm$ 20%	1V/2.52M	0.100	1.44
FPI 1004-330M	33 $\pm$ 20%	1V/2.52M	0.120	1.26
FPI 1004-390M	39 $\pm$ 20%	1V/2.52M	0.151	1.20
FPI 1004-470M	47 $\pm$ 20%	1V/2.52M	0.170	1.10
FPI 1004-560K	56 $\pm$ 10%	1V/2.52M	0.199	1.01
FPI 1004-680K	68 $\pm$ 10%	1V/2.52M	0.223	0.91
FPI 1004-820K	82 $\pm$ 10%	1V/2.52M	0.252	0.85
FPI 1004-101K	100 $\pm$ 10%	1V/1K	0.344	0.74
FPI 1004-121K	120 $\pm$ 10%	1V/1K	0.396	0.69
FPI 1004-151K	150 $\pm$ 10%	1V/1K	0.544	0.61
FPI 1004-181K	180 $\pm$ 10%	1V/1K	0.621	0.56
FPI 1004-221K	220 $\pm$ 10%	1V/1K	0.721	0.53
FPI 1004-271K	270 $\pm$ 10%	1V/1K	0.949	0.45
FPI 1004-331K	330 $\pm$ 10%	1V/1K	1.100	0.42
FPI 1004-391K	390 $\pm$ 10%	1V/1K	1.245	0.38
FPI 1004-471K	470 $\pm$ 10%	1V/1K	1.526	0.35
FPI 1004-561K	560 $\pm$ 10%	1V/1K	1.904	0.32

■ FPI 1005 Series

Part Number	Inductance (uH)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)max.
FPI 1005-100M	10 $\pm$ 20%	1V/2.52M	0.06	2.60
FPI 1005-120M	12 $\pm$ 20%	1V/2.52M	0.07	2.45
FPI 1005-150M	15 $\pm$ 20%	1V/2.52M	0.08	2.27
FPI 1005-180M	18 $\pm$ 20%	1V/2.52M	0.09	2.15
FPI 1005-220M	22 $\pm$ 20%	1V/2.52M	0.10	1.95
FPI 1005-270M	27 $\pm$ 20%	1V/2.52M	0.11	1.76
FPI 1005-330M	33 $\pm$ 20%	1V/2.52M	0.12	1.50
FPI 1005-390M	39 $\pm$ 20%	1V/2.52M	0.14	1.37
FPI 1005-470M	47 $\pm$ 20%	1V/2.52M	0.17	1.28
FPI 1005-560M	56 $\pm$ 20%	1V/2.52M	0.19	1.17
FPI 1005-680M	68 $\pm$ 20%	1V/2.52M	0.22	1.11
FPI 1005-820M	82 $\pm$ 20%	1V/2.52M	0.25	1.00
FPI 1005-101M	100 $\pm$ 20%	1V/1K	0.35	0.97
FPI 1005-121M	120 $\pm$ 20%	1V/1K	0.40	0.89
FPI 1005-151M	150 $\pm$ 20%	1V/1K	0.47	0.78
FPI 1005-181M	180 $\pm$ 20%	1V/1K	0.63	0.72
FPI 1005-221M	220 $\pm$ 20%	1V/1K	0.73	0.66
FPI 1005-271M	270 $\pm$ 20%	1V/1K	0.97	0.57
FPI 1005-331M	330 $\pm$ 20%	1V/1K	1.15	0.52
FPI 1005-391M	390 $\pm$ 20%	1V/1K	1.30	0.48
FPI 1005-471M	470 $\pm$ 20%	1V/1K	1.48	0.42
FPI 1005-561M	560 $\pm$ 20%	1V/1K	1.90	0.33
FPI 1005-681M	680 $\pm$ 20%	1V/1K	2.25	0.28
FPI 1005-821M	820 $\pm$ 20%	1V/1K	2.55	0.24

Other non standard inductance value are available to meet your exact requirements

Note:1.Inductance measured by LCR Meter HP-4291A 2. DCR measured by Milliohm meter HP-4338A