

SMD POWER INDUCTORS FAHPI0412-0530 SERIES



FEATURES :

High rated current
Frequency up to 3MHz
125°C maximum total temperature operation
Low core loss
Ultra low buzz noise due to molding construction
Halogen Free & RoHS compliant

OPTIONS :

Laptops and Pcs
Switch and servers
Base stations
DC/DC converters
Battery powered devices
SSD modules

GENERAL SPECIFICATIONS:

Test Frequency(Voltage):100KHz/1.0V
Parameters Test Temp:25
Operation Temp:-55°C to +125°C
[Including temperature Rise]
Storage Temp:0 - 40°C
Storage Humidity:<70% RH
Resistance to Soldering Heat:260°C for 10 sec
Rated Current:Ind. drops of 30% typ at Isat
Temperature Rise:40°C typ at Irms

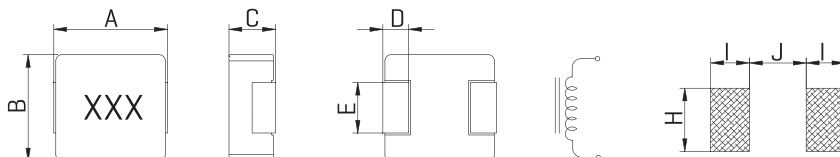
ELECTRICAL CHARACTERISTICS:

Stamp	Inductance [uH]	FAHPI0412			FAHPI0420			FAHPI0518			FAHPI0530		
		DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]
R10	0.10				4.00	22.0	13.0				3.00	30.0	25.0
R15	0.15	9.00	15.0	7.50									
R20	0.20										3.90	20.0	14.0
R22	0.22	11.0	11.0	7.00	6.60	12.5	9.50						
R33	0.33	19.0	8.40	6.50	11.0	12.0	10.0				5.50	18.0	14.0
R47	0.47	21.0	6.80	6.00	14.0	9.50	7.50	9.00	12.0	10.5	8.50	15.0	11.0
R56	0.56				16.0	9.00	7.00	10.0	11.0	9.50			
R68	0.68	36.0	6.00	4.70	18.0	8.00	7.00				12.0	11.5	9.00
1R0	1.00	47.0	5.50	4.50	27.0	7.00	6.00	17.0	9.00	8.00	14.0	10.0	8.50
1R2	1.20				27.0	6.50	6.00				16.0	9.50	8.50
1R5	1.50	75.0	4.00	3.25	46.0	5.50	5.00	26.0	8.00	7.50	25.0	9.00	8.20
2R2	2.20	83.5	3.00	2.75	58.0	5.00	4.50	35.0	6.00	5.00	29.0	7.00	7.00
3R3	3.30				87.0	3.50	3.30	58.0	4.80	4.50	38.0	6.00	5.50
4R7	4.70	195	2.20	1.80	98.0	3.20	2.80	85.0	4.00	3.50	60.0	4.60	4.50
6R8	6.80				175	2.50	2.40	120	3.40	2.80	90.0	3.60	3.50
100	10.0				282	2.00	1.60	155	2.50	2.50	125	3.50	3.20
220	22.0				363	1.40	1.20						

Note:When ordering,please specify tolerance code.Tolerance:K=±10%,M=±20%,N=±30%

Beyond the above specification also can meet the special requirements.Need detailed content Please to the website query or contact us

SHAPE AND DIMENSIONS AND ELECTRICAL SCHEMATIC & PAD LAYOUT



TYPE	A	B	C	D	E	H	I	J
	±0.35	±0.20	±0.20	REF	REF	REF	REF	REF
FAHPI0412	4.40	4.20±0.25	1.00	0.80	2.00	2.50	1.50	2.20
FAHPI0420	4.40	4.20±0.25	1.80	0.80	2.00	2.50	1.50	2.20
FAHPI0518	5.40	5.20	1.60	1.20	2.20	2.50	1.90	2.20
FAHPI0530	5.40	5.20	2.80	1.20	2.20	2.50	1.90	2.20

SMD POWER INDUCTORS

FAHPI0618-0640 SERIES



FEATURES:

High rated current
Frequency up to 3MHz
125°C maximum total temperature operation
Low core loss
Ultra low buzz noise due to molding construction
Halogen Free & RoHS compliant

OPTIONS:

Laptops and Pcs
Switch and servers
Base stations
DC/DC converters
Battery powered deevices
SSD modules

GENERAL SPECIFICATIONS:

Test Frequency(Voltage):100KHz/1.0V
Parameters Test Temp:25°C
Operation Temp:-55°C to +125°C
(Including temperature Rise)
Storage Temp:0 - 40°C
Storage Humidity:<70% RH
Resistance to Soldering Heat:260°C for 10 sec
Rated Current:Ind. drops of 30% typ at Isat
Temperature Rise:40°C typ at Irms

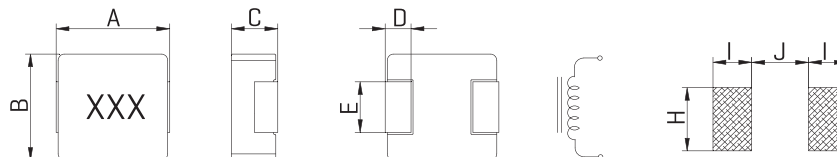
ELECTRICAL CHARACTERISTICS:

Stamp	Inductance [uH]	FAHPI0618			FAHPI0624			FAHPI0630			FAHPI0640		
		DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]
R10	0.10	2.30	38.0	25.0									
R22	0.22	3.50	24.0	22.0	3.00	30.0	21.0	3.00	34.0	24.0			
R33	0.33				4.10	24.5	18.0	3.50	25.0	21.0			
R47	0.47	8.40	18.0	11.5	5.10	20.0	15.0	4.10	20.0	18.0			
R56	0.56				6.50	17.0	13.0	4.50	18.0	16.5			
R68	0.68	12.0	16.5	9.50	7.00	16.0	12.0	5.30	17.0	16.0			
R82	0.82							6.00	16.0	14.0			
1R0	1.00	16.0	12.0	8.50	13.5	15.0	9.00	7.40	15.0	12.0			
1R5	1.50	26.0	9.20	8.00	20.0	13.5	8.20	12.1	12.0	12.0			
2R2	2.20	35.0	8.00	7.00	28.0	10.0	7.00	15.0	10.0	9.50	14.0	11.0	9.00
3R3	3.30	50.0	6.00	4.50	39.0	8.00	5.50	22.0	9.50	8.50			
4R7	4.70	62.0	5.00	4.00	50.0	6.50	5.00	33.0	9.00	6.00	30.0	9.00	7.00
5R6	5.60							42.0	6.50	5.50			
6R8	6.80	110	4.50	3.00	70.0	6.00	4.00	48.0	6.00	5.00			
8R2	8.20							60.0	5.50	5.00			
100	10.0	155	4.00	2.30	101	4.00	3.10	68.0	5.50	4.50			
150	15.0				160	3.30	2.50	113	4.00	3.00	110	4.50	3.50
220	22.0	350	2.30	1.80	230	2.50	2.00	170	3.00	2.50			
330	33.0							270	2.50	2.00			
470	47.0							385	2.00	1.50			

Note:When ordering,please specify tolerance code.Tolerance:K=±10%,M=±20%,N=±30%

Beyond the above specification also can meet the special requirements.Need detailed content Please to the website query or contact us

SHAPE AND DIMENSIONS AND ELECTRICAL SCHEMATIC & PAD LAYOUT



TYPE	A	B	C	D	E	H	I	J
	±0.30	±0.20	±0.20	REF	REF	REF	REF	REF
FAHPI0618	7.00	6.60	1.60	1.60	3.00	3.50	2.35	3.70
FAHPI0624	7.00	6.60	2.20	1.60	3.00	3.50	2.35	3.70
FAHPI0630	7.00	6.60	2.80	1.60	3.00	3.50	2.35	3.70
FAHPI0640	7.00	6.60	3.80	1.60	3.00	3.50	2.35	3.70

SMD POWER INDUCTORS FAHPI0650-1040 SERIES



FEATURES :

High rated current
Frequency up to 3MHz
125°C maximum total temperature operation
Low core loss
Ultra low buzz noise due to molding construction
Halogen Free & RoHS compliant

OPTIONS :

Laptops and Pcs
Switch and servers
Base stations
DC/DC converters
Battery powered devices
SSD modules

GENERAL SPECIFICATIONS:

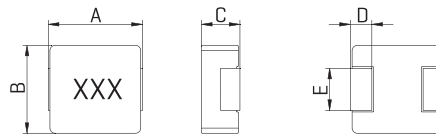
Test Frequency(Voltage):100KHz/1.0V
Parameters Test Temp:25°C
Operation Temp:-55°C to +125°C
(Including temperature Rise)
Storage Temp:0 - 40°C
Storage Humidity:<70% RH
Resistance to Soldering Heat:260°C for 10 sec
Rated Current:Ind. drops of 30% typ at Isat
Temperature Rise:40°C typ at Irms

ELECTRICAL CHARACTERISTICS:

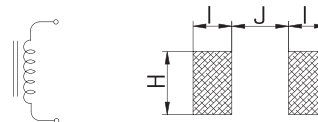
Stamp	Inductance [uH]	FAHPI0650			FAHPI1040		
		DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]
R15	0.15				0.65	75.0	45.0
R22	0.22				1.00	60.0	35.0
R30	0.30				1.10	45.0	35.0
R36	0.36				1.20	45.0	30.0
R47	0.47	3.90	21.0	20.0	1.70	40.0	30.0
R50	0.50						
R56	0.56				1.80	33.0	25.0
R68	0.68	4.50	18.0	16.5	2.40	30.0	23.0
R80	0.80				2.70	29.0	23.0
R82	0.82						
1R0	1.00	6.60	16.0	12.0	3.30	28.0	19.0
1R5	1.50	10.0	13.0	9.50	4.20	24.0	16.0
2R2	2.20	12.5	11.0	9.00	7.00	16.5	12.0
3R3	3.30	22.0	10.0	8.50	11.8	16.0	11.0
4R7	4.70	29.0	8.00	6.00	20.0	13.0	9.00
5R6	5.60						
6R8	6.80	41.0	6.30	5.80	25.0	12.0	8.50
8R2	8.20	48.0	5.50	5.50	27.0	9.00	8.00
100	10.0	60.0	5.30	4.50	30.0	8.50	7.80
120	12.0						
150	15.0	90.0	4.00	3.10	45.0	7.00	6.50
180	18.0						
220	22.0	140	3.50	2.60	66.0	5.50	5.00
270	27.0						
330	33.0	190	3.00	2.30	92.0	4.80	4.40
470	47.0	230	2.60	2.00	145	3.50	3.30
680	68.0				195	3.00	2.50

Note:When ordering,please specify tolerance code.Tolerance:K=±10%,M=±20%,N=±30%
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content Please to the website query or contact us

SHAPE AND DIMENSIONS



ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

TYPE	A	B	C	D	E	H	I	J
	±0.30	±0.20	±0.20	REF	REF	REF	REF	REF
FAHPI0650	7.00	6.60	4.80	1.60	3.00	3.50	2.35	3.70
FAHPI1040	11.0±0.5	10.0±0.3	3.80	2.00	3.00	4.10	4.10	5.40

SMD POWER INDUCTORS FAHPI1240-1260 SERIES



FEATURES :

- High rated current
- Frequency up to 3MHz
- 125°C maximum total temperature operation
- Low core loss
- Ultra low buzz noise due to molding construction
- Halogen Free & RoHS compliant

OPTIONS :

- Laptops and Pcs
- Switch and servers
- Base stations
- DC/DC converters
- Battery powered devices
- SSD modules

GENERAL SPECIFICATIONS:

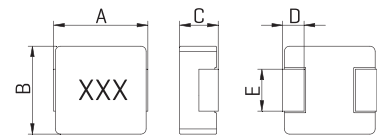
- Test Frequency(Voltage):100KHz/1.0V
- Parameters Test Temp:25°C
- Operation Temp:-55°C to +125°C [Including temperature Rise]
- Storage Temp:0 - 40°C
- Storage Humidity:<70% RH
- Resistance to Soldering Heat:260°C for 10 sec
- Rated Current:Ind. drops of 30% typ at Isat
- Temperature Rise:40°C typ at Irms

ELECTRICAL CHARACTERISTICS:

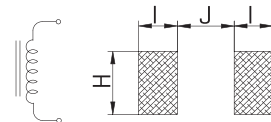
Stamp	Inductance [uH]	FAHPI1240			FAHPI1250			FAHPI1260		
		DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]	DCR [mohm] Max	Isat [A]	Irms [A]
R15	0.15									
R22	0.22	0.90	50.0	42.0	0.70	75.0	50.0			
R30	0.30									
R36	0.36				0.85	50.0	42.0			
R47	0.47	2.00	48.0	33.0						
R50	0.50				1.15	48.0	38.0			
R56	0.56									
R68	0.68	3.50	47.0	28.0	1.55	46.0	33.0			
R80	0.80									
R82	0.82	4.50	40.0	28.0	1.67	39.0	30.0			
1R0	1.00	7.50	35.0	24.0	2.20	35.0	26.0			
1R5	1.50	9.50	30.5	20.0	3.20	33.0	23.0			
2R2	2.20	11.5	26.0	18.0	5.00	24.0	15.0			
3R3	3.30	13.0	21.0	15.0	7.00	22.0	14.0			
4R7	4.70	14.5	18.0	13.0	9.00	20.0	13.0	9.00	24.0	15.0
5R6	5.60							11.0	22.5	13.0
6R8	6.80	20.0	14.0	9.00	18.0	16.0	12.0	13.5	19.0	12.0
8R2	8.20							16.0	13.5	11.0
100	10.0	25.0	10.0	8.00	22.0	12.0	9.00	20.7	12.5	10.0
120	12.0							23.0	10.0	9.00
150	15.0	39.0	7.50	6.50	30.0	10.0	8.00	29.0	9.00	8.50
180	18.0							35.0	8.00	7.50
220	22.0	51.0	6.00	4.50	58.0	6.50	4.50	39.5	7.50	7.00
270	27.0							56.0	6.50	6.00
330	33.0				84.0	6.00	3.50	75.0	6.00	5.50
470	47.0				130	5.00	3.00	90.0	5.50	5.50
680	68.0							140	4.50	4.00
101	100							200	3.50	3.00
121	120							235	3.20	2.00
151	150							350	2.70	1.50

Note:When ordering,please specify tolerance code.Toerance:K=±10%,M=±20%,N=±30%
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SHAPE AND DIMENSIONS



ELECTRICAL SCHEMATIC & PAD LAYOUT



DIMENSIONS:MM

TYPE	A	B	C	D
	±0.35	±0.30	±0.20	REF
FAHPI1240	13.45	12.8±0.5	3.80	2.00
FAHPI1250	13.45	12.6	4.80	2.00
FAHPI1260	13.45	12.6	5.80	2.00

TYPE	E	H	I	J
	REF	REF	REF	REF
FAHPI1240	See Remarks	5.50	3.25	8.00
FAHPI1250	See Remarks	5.50	3.25	8.00
FAHPI1260	5.00	5.50	3.25	8.00

SERIES	E(REF)	DIMENSIONS
FAHPI1240	3.85	R22/R47
	5.00	R68/R82/1R0/1R5/2R2/3R3/4R7/6R8/100/150/220
FAHPI1250	3.85	R22/R36/R50/R68/R82/1R0/1R5/2R2
	5.00	3R3/4R7/6R8/100/150/220/330/470