

# SMD POWER INDUCTORS

## FAMPI0618-0650 SERIES



### FEATURES:

Carbonyl powder inductor  
 Low loss realized with low DCR  
 Very low acoustic noise and very low leakage flux noise  
 Frequency up to 3MHz  
 High reliability  
 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:-40°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 25% typ at Isat  
 Temperature Rise:40°C typ at Irms

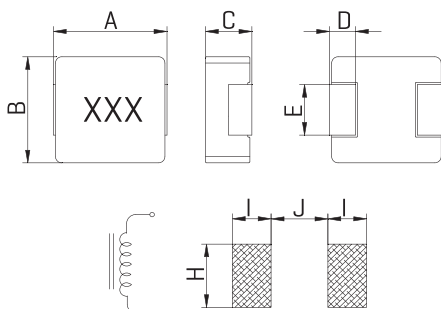
### ELECTRICAL CHARACTERISTICS:

Stamp	Inductance [uH]	FAMPI0618			FAMPI0620			FAMPI0624			FAMPI0630			FAMPI0650		
		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]	DCR [mohm] Max	Isat [A]	Irms [A]
R10	0.10				2.40	40.0	21.0	1.70	70.0	30.0						
R15	0.15							2.30	45.0	30.0						
R20	0.20				3.00	35.0	18.0	2.80	40.0	23.0						
R22	0.22							3.20	34.0	21.0	2.80	40.0	23.0			
R33	0.33	5.80	22.0	14.0	5.00	25.0	14.0	4.40	30.0	18.0	3.90	32.0	20.0			
R36	0.36							4.60	29.0	17.0						
R47	0.47	7.40	18.0	12.0	8.30	20.0	11.7	5.50	26.0	15.0	4.20	26.0	17.5	3.90	30.0	22.0
R56	0.56							6.80	24.0	13.0	5.00	25.5	16.5	4.20	27.0	20.0
R60	0.60							6.90	22.0	13.0				4.30	25.0	19.0
R68	0.68	11.0	17.0	10.0	10.0	16.0	10.5	7.20	21.0	13.0	5.50	25.0	15.5	4.50	24.0	18.0
R75	0.75										6.60	24.5	14.5			
R82	0.82	14.0	15.5	8.50				9.50	17.0	11.0	7.80	24.0	13.0	4.90	22.0	16.5
1R0	1.00	17.0	14.0	7.00	16.5	14.0	8.00	13.5	16.0	11.0	9.50	22.0	11.0	6.50	20.2	15.0
1R2	1.20	24.0	13.5	6.50										7.50	18.0	14.0
1R5	1.50	25.2	13.0	6.00	24.6	12.0	7.00	20.7	15.0	9.00	15.0	18.0	9.00	9.00	16.5	12.0
1R8	1.80										17.0	16.0	8.50	11.0	15.0	12.0
2R2	2.20	35.0	11.0	6.00	34.0	10.0	6.00	27.5	14.0	7.00	20.0	14.0	8.00	11.6	14.0	10.0
2R5	2.50										22.0	13.0	7.00			
3R3	3.30	46.0	9.00	5.00	48.0	8.00	5.00	37.8	10.0	6.00	29.5	12.5	6.00	20.9	12.0	8.00
4R7	4.70	76.0	7.00	4.00	59.5	7.00	4.50	50.0	9.00	5.50	39.5	10.0	5.50	30.2	10.0	6.50
5R6	5.60	86.0	6.00	3.50	68.0	6.00	4.00	62.0	8.00	5.00	47.5	9.00	5.00	49.0	9.00	6.00
6R8	6.80	104	5.50	3.00	73.0	5.50	4.00	70.5	7.00	4.00	55.0	8.00	4.50	50.5	8.50	5.50
8R2	8.20	140	4.50	2.60	116	5.00	3.20	95.0	6.00	3.60	68.0	7.50	4.00	60.0	8.00	5.00
100	10.0	160	3.50	2.30	154	4.00	2.80	101	5.00	3.20	83.2	6.00	3.50	69.0	7.50	4.00
220	22.0				280	2.50	1.50	215	3.00	1.80	186	3.50	2.00	160	5.50	2.50

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



#### DIMENSIONS:MM

TYPE	A	B	C	D	E	H	I	J
	±0.35	±0.30	±0.20	REF	REF	REF	REF	REF
FAMPI0518	5.70	5.20	1.60	1.20	2.20	2.70	2.00	2.20
FAMPI0520	5.70	5.20	1.80	1.20	2.20	2.70	2.00	2.20
FAMPI0530	5.70	5.20	2.80	1.20	2.20	2.70	2.00	2.20
FAMPI0612	7.30	6.60	1.00	1.60	3.00	3.50	2.35	3.70
FAMPI0615	7.30	6.60	1.30	1.60	3.00	3.50	2.35	3.70