特金科技有限公司
TE-JIN TECHNOLOGY CO., LTD.

*All the data listed in this catalogue are for reference only, company reserves the right to alter or revise the specifica tions without prior notification.

*Detailed specifications are available upon request.
*Customized specifications are available, please contact company for the details.

Type	Fig	TJ P/N	Main Dimensions(mm)			Page
			L	W	H	
Thin Film Common Mode Filters		CMF0605	0.65±0.05	0.55±0.05	0.3±0.05	P2~P4
		CMF0806	0.85±0.05	0.65±0.05	0.4±0.05	
Power Inductors (Shielded)		FRH73	7.2±0.3	7.2±0.3	3.2±0.3	P5~P7
		FRH74	7.2±0.3	7.2±0.3	4.2±0.3	
Power Inductors (Shielded)		FRH103	10.2±0.3	10.0±0.3	3.1Max	P8~P11
		FRH104	10.2±0.3	10.0±0.3	4.0Max	
		FRH105	10.2±0.3	10.0±0.3	5.1Max	
Power Inductors		FDO3316	12.95Max	9.80Max	5.21Max	P12~P15
		FDO3340	12.95Max	9.80Max	11.43Max	
		FDO5022	18.54Max	15.24Max	7.11Max	
SMD Molding Power Inductors		FPM0420	4.49±0.40	4.06±0.30	2.0Max	P16~P20
		FPM0520	5.60±0.30	5.00±0.30	2.0Max	
		FPM0630	7.30±0.30	6.60±0.30	3.0Max	
		FPM1040	11.0±0.50	10.0±0.30	4.0Max	
Power Inductors		CD43	4.0±0.3	4.5±0.3	3.2±0.3	P21~P23
		CD54	5.2±0.3	5.8±0.3	4.5±0.3	

SMD Molding Power Inductors Series

SMD Molding Power Inductors Series

- Molding Power Inductors
- Inductance Range:0.1 to 100uH
- Operating temperature -55℃ to +125℃
- Inductance drop 30% at Isat
- Rohs copliant

Product Identification

FPM	0420	H	-	100	M
①	②	③		④	⑤

① Product Symbol.
② Product dimensions
③ Materials code
④ Inductance Value：(R22=0.22uH，2R2=2.2uH,100=10uH,101=100uH,)
⑤ Induc tance Tolerance：(K=±10%,M=±20%,N=±30%)

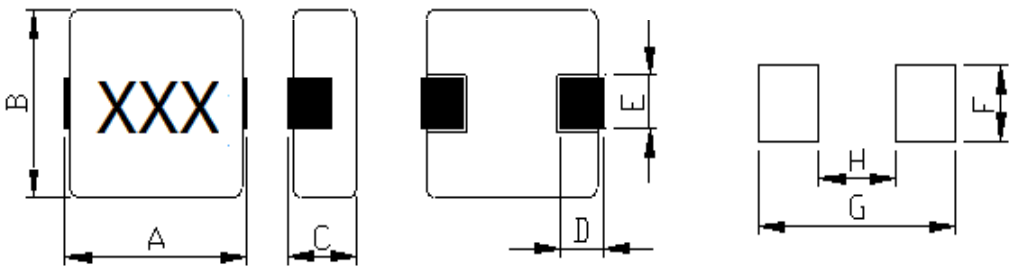
Features

- Low profile, high current power supplies.
- Low loss realized with low DCR.
- Ultra low buzz noise.
- Packed in embossed carrier tape and can be used by automatic mounting machine.

Applications

- Ideally used in NB/Desktop/server/Graphic card, LCD TV/Projector, etc as DC-DC Converter.

External Dimensions (Unit:m/m)



Type	A	B	C	D	E	F	G	H
FPM0420H	4.49±0.40	4.06±0.30	2.0Max	1.1±0.30	1.5±0.30	2.30	5.20	2.20
FPM0520H	5.60±0.30	5.00±0.30	2.0Max	1.2±0.30	2.0±0.30	2.50	7.00	3.00
FPM0630H	7.30±0.30	6.60±0.30	3.0Max	1.6±0.30	3.0±0.30	3.50	8.40	2.50
FPM1040H	11.0±0.50	10.0±0.30	4.0Max	2.0±0.30	3.0±0.30	4.10	13.60	5.40

SMD Molding Power Inductors Series

Electrical Specifications@25℃

FPM0420HSeries

PartNumber	Inductance(μH)	Test Frequency (Hz)	DCR (mΩ) Typ	DCR (mΩ) Max	Saturation Current Isat(A) Max	Heat Rating Current Irms(A) Max
FPM0420H-R10M	0.10	1M	3.8	4.5	23.0	12.0
FPM0420H-R22M	0.22	1M	5.0	7.0	16.0	11.0
FPM0420H-R22M	0.33	1M	8.2	10.5	12.0	10.5
FPM0420H-R47M	0.47	1M	11.0	14.0	10.0	7.0
FPM0420H-R68M	0.68	1M	15.0	20.0	8.0	6.0
FPM0420H-1R0M	1.0	1M	23.0	27.0	7.0	4.5
FPM0420H-1R2M	1.2	1M	28.0	33.0	6.5	4.0
FPM0420H-1R5M	1.5	1M	30.0	36.0	6.0	4.0
FPM0420H-2R2M	2.2	1M	49.0	58.0	5.0	3.0
FPM0420H-3R3M	3.3	1M	78.0	87.0	4.0	3.0
FPM0420H-4R7M	4.7	1M	105.0	140.0	3.0	2.2
FPM0420H-6R8M	6.8	1M	120.0	175.0	2.5	2.4
FPM0420H-100M	10	1M	170.0	200.0	1.8	1.5

NOTE:

1.Tolerance value: K = ±10%, M = ±20%,N=±30%

2.All test data is referenced to 25 ℃ ambient.

3.Test Condition: 1MKHz, 1.0Vrms

4.Isat : DC current (A) that will cause L0 to drop ap proximately 30%

5.Irms : DC current (A) that will cause an approximate △T of 40 ℃

6.Operating Temperature Range -55 ℃ to + 125 ℃

SMD Molding Power Inductors Series

Electrical Specifications@25℃

FPM0520HSeries

PartNumber	Inductance(μH)	Test Frequency (Hz)	DCR (mΩ) Typ	DCR (mΩ) Max	Saturation Current Isat(A) Max	Heat Rating Current Irms(A) Max
FPM0520H-R22M	0.22	1M	4.6	6.0	16.5	13.0
FPM0520H-R33M	0.33	1M	7.5	9.0	15.0	12.0
FPM0520H-R47M	0.47	1M	7.4	9.0	12.0	11.5
FPM0520H-1R0M	1.0	1M	28.0	33.0	8.0	5.0
FPM0520H-1R5M	1.5	1M	22.0	26.0	7.0	5.0
FPM0520H-2R2M	2.2	1M	42.0	50.0	6.0	4.0
FPM0520H-3R3M	3.3	1M	58.0	70.0	4.0	3.2
FPM0520H-4R7M	4.7	1M	75.0	90.0	3.5	3.0
FPM0520H-6R8M	6.8	1M	120.0	130.0	2.8	2.5
FPM0520H-100M	10	1M	170.0	190.0	2.0	1.8

NOTE:

1.Tolerance value: K = ±10%, M = ±20%,N=±30%

2.All test data is referenced to 25 ℃ ambient.

3.Test Condition: 1MKHz, 1.0Vrms

4.Isat : DC current (A) that will cause L0 to drop ap proximately 30%

5.Irms : DC current (A) that will cause an approximate ⊿T of 40 ℃

6.Operating Temperature Range -55 ℃ to + 125 ℃

SMD Molding Power Inductors Series

Electrical Specifications@25℃

FPM0630HSeries

PartNumber	Inductance(μH)	Test Frequency (Hz)	DCR (mΩ) Typ	DCR (mΩ) Max	Saturation Current Isat(A) Max	Heat Rating Current Irms(A) Max
FPM0630H-R22M	0.22	1M	2.5	2.8	35.0	23.0
FPM0630H-R33M	0.33	1M	3.0	3.9	30.0	21.0
FPM0630H-R47M	0.47	1M	3.6	4.5	25.0	17.5
FPM0630H-R68M	0.68	1M	5.0	5.5	17.0	16.0
FPM0630H-1R0M	1.0	1M	7.0	8.0	15.0	12.0
FPM0630H-1R5M	1.5	1M	10.5	12.0	13.0	9.0
FPM0630H-2R2M	2.2	1M	16.0	20.0	10.2	8.0
FPM0630H-3R3M	3.3	1M	21.0	28.0	8.0	6.5
FPM0630H-4R7M	4.7	1M	28.0	35.0	6.6	5.5
FPM0630H-6R8M	6.8	1M	45.0	55.0	6.1	5.0
FPM0630H-8R2M	8.2	1M	60.0	68.0	6.0	4.0
FPM0630H-100M	10	1M	60.0	68.0	5.0	4.0
FPM0630H-150M	15	1M	95.0	110.0	3.2	2.8
FPM0630H-220M	22	1M	121.0	167.0	3.0	2.5
FPM0630H-330M	33	1M	215.0	245.0	2.5	1.5

NOTE:

1.Tolerance value: K = ±10%, M = ±20%,N=±30%

2.All test data is referenced to 25 ℃ ambient.

3.Test Condition: 1MKHz, 1.0Vrms

4.Isat : DC current (A) that will cause L0 to drop ap proximately 30%

5.Irms : DC current (A) that will cause an approximate △T of 40 ℃

6.Operating Temperature Range -55 ℃ to + 125 ℃

SMD Molding Power Inductors Series

Electrical Specifications@25℃

FPM1040HSeries

PartNumber	Inductance(μH)	Test Frequency (Hz)	DCR (mΩ) Typ	DCR (mΩ) Max	Saturation Current Isat(A) Max	Heat Rating Current Irms(A) Max
FPM1040H-1R0M	1.0	1M	2.8	3.5	26.0	20.0
FPM1040H-1R5M	1.5	1M	4.5	5.8	22.0	16.0
FPM1040H-2R2M	2.2	1M	6.5	7.0	18.0	12.0
FPM1040H-3R3M	3.3	1M	10.5	11.6	16.0	11.0
FPM1040H-4R7M	4.7	1M	13.5	16.5	13.0	8.0
FPM1040H-5R6M	5.6	1M	18.0	22.0	12.0	7.0
FPM1040H-6R8M	6.8	1M	20.0	25.0	10.0	7.0
FPM1040H-8R2M	8.2	1M	33.0	36.0	9.0	6.0
FPM1040H-100M	10	1M	35.0	40.0	8.5	6.0
FPM1040H-150M	15	1M	42.0	45.0	7.0	6.0
FPM1040H-220M	22	1M	62.0	65.0	5.6	5.1
FPM1040H-330M	33	1M	90.0	95.0	5.0	3.5
FPM1040H-470M	47	1M	127.0	145.0	4.0	3.0

NOTE:

1.Tolerance value: K = ±10%, M = ±20%,N=±30%

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4.Isat : DC current (A) that will cause L0 to drop ap proximately 30%

5.Irms : DC current (A) that will cause an approximate △T of 40 ℃

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