

*All the data listed in this catalogue are for reference only, company reserves the right to alter or revise the specifications 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	

Shielded Power Inductors FRH103&FRH104&FRH105Series

FRH103&FRH104&FRH105Series



- Shield Power Inductors
- Inductance Range:1.0 to 1000uH
- Operating temperature -40°C to +125°C
- Inductance drop 30% at Isat
- Rohs compliant

Product Identification

FRH 103 - 100 M
① ② ③ ④

- ① Product Symbol.
- ② Product dimensions
- ③ Inductance Value : (2R2=2.2uH,100=10uH,101=100uH,102=1000uH)
- ④ Induc tance Tolerance : (K=±10%,M=±20%,N=±30%)

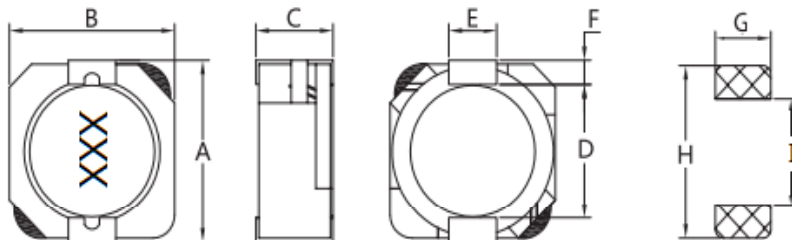
Features

- Magnetic shielded surface mount inductor with high current rating.
- High inductance/High power inductor.
- Packed in embossed carrier tape and can be used by automatic mounting machine.

Applications

- Ideal use in variety of DC-DC converter inductor applicarions.
- Ideally used in Notebook PC,Game Machine, HDD,DVD,LCD TV.

External Dimensions (Unit:m/m)



Type	A	B	C	D	E	F	G	H	I
FRH103	10.2±0.30	10.0±0.30	3.10Max	7.8	3	1.2	3.2	10.5	7.3
FRH104	10.2±0.30	10.0±0.30	4.00Max	7.8	3	1.2	3.2	10.5	7.3
FRH105	10.2±0.30	10.0±0.30	5.10Max	7.8	3	1.2	3.2	10.5	7.3

特金科技有限公司
TE-JIN TECHNOLOGY CO., LTD.

Shielded Power Inductors FRH103&FRH104&FRH105Series

Electrical Specifications@25℃

FRH103Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max	Rated DC Current (A)Max
FRH103-1R5N	1.5	100	0.018	7.00
FRH103-2R2N	2.2	100	0.023	6.50
FRH103-3R3N	3.3	100	0.028	6.00
FRH103-4R7N	4.7	100	0.047	5.50
FRH103-5R6N	5.6	100	0.055	4.80
FRH103-6R8M	6.8	100	0.058	3.84
FRH103-8R2M	8.2	100	0.072	4.50
FRH103-100M	10	100	0.097	3.18
FRH103-150M	15	100	0.122	2.80
FRH103-220M	22	100	0.143	2.40
FRH103-330M	33	100	0.230	2.20
FRH103-470M	47	100	0.341	1.90
FRH103-560M	56	100	0.371	1.70
FRH103-680M	68	100	0.511	1.50
FRH103-820M	82	100	0.541	1.30
FRH103-101M	100	100	0.803	1.10
FRH103-151M	150	100	1.260	0.92
FRH103-221M	220	100	1.760	0.75

NOTE: Tolerance value: K = ±10%, L = ±15%, M = ±20%, N=±30%

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Shielded Power Inductors FRH103&FRH104&FRH105Series

Electrical Specifications@25℃

FRH104Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max	Rated DC Current (A)Max
FRH104-1R0N	1.0	100	0.014	10.00
FRH104-2R2N	2.2	100	0.021	7.50
FRH104-3R3N	3.3	100	0.025	6.00
FRH104-4R7N	4.7	100	0.028	5.50
FRH104-6R8N	6.8	100	0.038	4.80
FRH104-100M	10	100	0.043	4.40
FRH104-150M	15	100	0.068	3.60
FRH104-180M	18	100	0.070	3.30
FRH104-220M	22	100	0.090	2.90
FRH104-270M	27	100	0.117	2.60
FRH104-330M	33	100	0.120	2.40
FRH104-390M	39	100	0.150	2.20
FRH104-470M	47	100	0.190	2.10
FRH104-560M	56	100	0.297	1.80
FRH104-680M	68	100	0.350	1.50
FRH104-820M	82	100	0.385	1.45
FRH104-101M	100	100	0.430	1.35
FRH104-151M	150	100	0.506	1.15
FRH104-181M	180	100	0.627	1.00
FRH104-221M	220	100	0.756	0.92
FRH104-271M	270	100	0.950	0.75
FRH104-331M	330	100	1.090	0.70
FRH104-391M	390	100	1.550	0.65
FRH104-471M	470	100	1.900	0.60
FRH104-561M	560	100	2.050	0.58
FRH104-681M	680	100	2.200	0.55
FRH104-821M	820	100	4.600	0.40
FRH104-102M	1000	100	5.110	0.32

NOTE: Tolerance value: K = ±10%, L = ±15%, M = ±20%,N=±30%

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Shielded Power Inductors FRH103&FRH104&FRH105Series

Electrical Specifications@25℃

FRH105Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max	Rated DC Current (A)Max
FRH105-1R5N	1.5	100	0.011	10.50
FRH105-2R2N	2.2	100	0.013	9.25
FRH105-3R3N	3.3	100	0.017	7.80
FRH105-4R7N	4.7	100	0.019	6.40
FRH105-6R8N	6.8	100	0.025	5.40
FRH105-100M	10	100	0.046	4.50
FRH105-150M	15	100	0.049	3.60
FRH105-180M	18	100	0.055	3.20
FRH105-220M	22	100	0.061	2.95
FRH105-270M	27	100	0.072	2.60
FRH105-330M	33	100	0.084	2.40
FRH105-390M	39	100	0.105	2.20
FRH105-470M	47	100	0.130	2.00
FRH105-560M	56	100	0.149	1.90
FRH105-680M	68	100	0.201	1.65
FRH105-820M	82	100	0.227	1.50
FRH105-101M	100	100	0.253	1.35
FRH105-151M	150	100	0.370	1.12
FRH105-181M	180	100	0.419	1.04
FRH105-221M	220	100	0.500	0.94
FRH105-271M	270	100	0.590	0.86
FRH105-331M	330	100	0.700	0.80
FRH105-391M	390	100	0.800	0.75
FRH105-471M	470	100	1.290	0.60
FRH105-561M	560	100	1.430	0.54
FRH105-681M	680	100	1.600	0.52
FRH105-821M	820	100	1.770	0.50
FRH105-102M	1000	100	1.990	0.48

NOTE: Tolerance value: K = ±10%, L = ±15%, M = ±20%,N=±30%