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FK,FK-High μ ,FK Low Profile Series



[FK Toroidal Series](#) [FK Toroidal High \$\mu\$ Series](#) [FK Toroidal Low Profile Series](#)

FK Toroidal Series



- FK coils are most effective to eliminate common mode noise on power lines and prevent malfunction of various measuring instrument and systematic devices.
- FK coils are excellent in high frequency characteristics, small and low priced.

 **Inquiries**

 **Size and part no. designations, electrical specifications**

Our Business

 **Smelting and Refining**

 **Mineral Resources Business**

 **Electronic Components**

 **Electronic Components Business**

 **SK Series**

 **HK,HK-BS Series**

 **HK-EE,HK-EER Series**

 **HK-C,HK High Power Series**

 **HK-F Series**

 **HK-AE, Dust Drum Series**

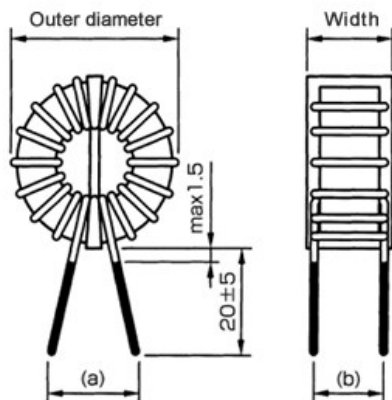
 **HM Toroidal Series**

 **FK,FK-High μ ,FK Low Profile Series**

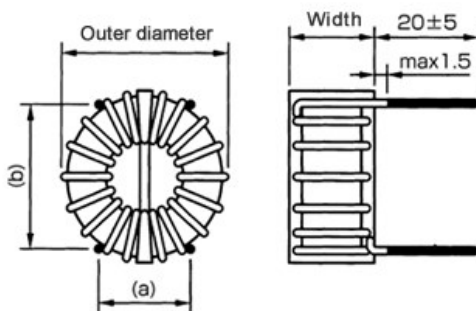
 **FK-Y Series**

 **Inquiries**

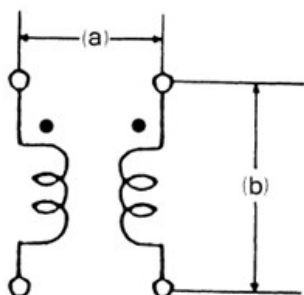
Vertical Setting



Horizontal Setting



Mounting Pitch



FK-130 G-102 0 H

① ② ③ ④ ⑤ ⑥

- ① Core material
 ② Wire diameter (1.3mmφ)
 ③ Core size
 ④ Inductance (1mH)
 ⑤ Product control No.
 ⑥ Option : H=Horizontal type,
 R=Base fixture

Rated voltage	AC250V	(between line&line)
Withstand voltage	AC2000V 1min.	(between line&line)
Insulation resistance	Min. 100MΩ at DC500V	
Allowable temperature	-25degC ~ +105degC	

Specifications of standard coil

Part No.	Rated current Idc(A)	Inductance (mH)	DCR one- side line (mΩ) max.	Diameter x Width (mm) max.	Wire diameter (mmφ)	Lead length (mm)	Mounting pitch (*)		Data PDF
							(a) (mm)	(b) (mm)	
FK-030BK-1020	1	1	110	15x9	0.3	20±5	6	8	
FK-040C-1020	1	1	75	17.5x14	0.4	20±5	8	13	
FK-040C-3020	1	3	130	17.5x14	0.4	20±5	8	13	
FK-050C-1020	2	1	50	17.5x14	0.5	20±5	8	13	
FK-050C-3020	2	3	85	17.5x14	0.5	20±5	8	13	
FK-060C-1020	3	1	35	17.5x14	0.6	20±5	8	13	
FK-060D-1020	2	1	100	25x14	0.6	20±5	10	13	

FK-100D-3010	8	0.3	13	26x14	1.0	20±5	10	14
FK-060E-1020	2	1	50	23x20	0.6	20±5	10	19
FK-060E-2020	2	2	75	23x20	0.6	20±5	10	19
FK-060E-3020	2	3	100	25x20	0.6	20±5	10	19
FK-060E-5020	2	5	110	27x20	0.6	20±5	10	19
FK-080E-1020	5	1	50	26x20	0.8	20±5	10	19
FK-060G-8020	2	8	170	34x23	0.6	20±5	18	19
FK-080G-2020	5	2	70	33x23	0.8	20±5	18	21
FK-080G-5020	4	5	80	34x23	0.8	20±5	18	21
FK-080G-8020	4	8	90	34x23	0.8	20±5	18	21
FK-110G-2020	7	2	25	34x23	1.1	20±5	18	21
FK-130G-1020H	10	1	20	34x23	1.3	20±5	22	21
FK-150J-5020	12	5	20	44x28	1.5	20±5	11	25
FK-130M-2020H	10	2	28	51x27	1.3	20±5	30	30
FK-180M-1020H	15	1	12	51x28	1.8	20±5	35	35
FK-230N-1020H	20	1	8	62x32	2.3	20±5	40	40
FK-260N-1020H	30	1	6	63x37	2.6	20±5	55	20

*Mounting pitches are reference data for design.

About custom made

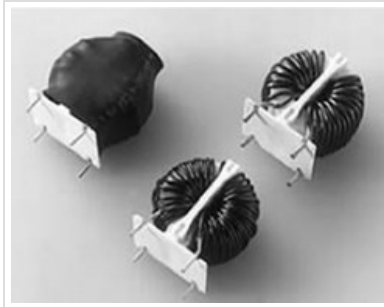
We can also accept custom-make coils to better suit your needs with standard core and base.
For more information, please ask us via inquiry button in this page

► [Specifications of standard base](#)  (PDF:375KB)



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FK Toroidal Highμ Series

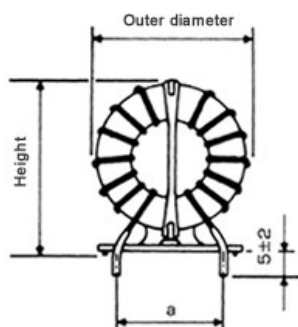


- Toroidal shape highμ series are small but with high inductance, made with high permeability core.

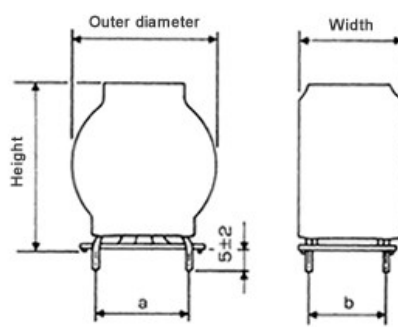
 **Inquiries**

Size and part no. designations, electrical specifications

● RJ Type



● RJT Type



FK-060 G W-303 0 RJ T

① ② ③ ④ ⑤ ⑥ ⑦ ⑧

- ① Core material
- ② Wire diameter (0.6mmφ)
- ③ Core size
- ④ Hi-μe material
- ⑤ Inductance (30mH)
- ⑥ Product control No.
- ⑦ Base fixture
- ⑧ Tubing

Rated voltage	AC250V	(between line&line)
Withstand voltage	AC2000V 1min.	(between line&line)
Insulation resistance	Min. 100MΩ at DC500V	
Allowable temperature	-25degC ~ +105degC	

Specifications of standard coil

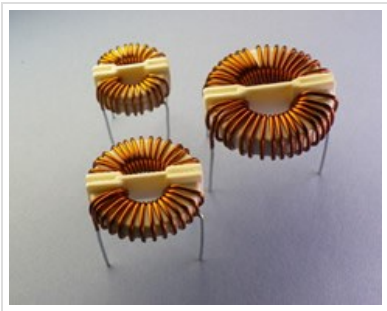
Part No.		Rated current Idc(A)	Inductance (mH) min.	DCR one-side line (mΩ) max.	Diameter x Height x Width (mm)max.	Wire diameter (mmφ)	Lead length (mm)	Mounting pitch (*)		Data PDF
								(a) (mm)	(b) (mm)	
RJ Type	FK-060GW-3030RJ	2	30	230	33x36x24	0.6	5±2	18	16	
	FK-080GW-2030RJ	4	20	110	34x36x25	0.8	5±2	18	16	
	FK-100GW-1030RJ	5	10	45	34x36x25	1.0	5±2	18	16	

RJ Type	FK-060GW-3030RJ	2	30	230	34x39x25	0.6	5±2	18	16
	FK-080GW-2030RJ	4	20	110	35x39x26	0.8	5±2	18	16
	FK-100GW-1030RJ	5	10	45	35x39x26	1.0	5±2	18	16

*Mounting pitches are reference data for design.



FK Toroidal Low Profile Series



- Low profile version of toroidal FK shape seires
- Suitable for applications that require low profile.
- Width dimension is 7 ~ 10mm down sizing available than the conventional product.

Size and part no. designations, electrical specifications

FK-050 GK4-163 O H

① ② ③ ④ ⑤ ⑥

① Core material
 ② Wire diameter (0.5mmφ)
 ③ Core size
 ④ Inductance (16mH)
 ⑤ Product control No.
 ⑥ Option

Rated voltage	AC250V	(between line&line)
Withstand voltage	AC2000V 1min.	(between line&line)
Insulation resistance	Min. 100MΩ at DC500V	
Allowable temperature	-25degC ~ +105degC	

Specifications of standard coil

Part No.	Rated current Idc(A)	Inductance (mH) min.	DCR one-side line (mΩ) max.	Diameter x Width (mm) max.	Wire diameter (mmφ)	Mounting pitch (*)		Data PDF
						(a) (mm)	(b) (mm)	

FK-050GK4-1630H	1	16	240	30x13	0.5	22	21	
FK-070GK4-5020H	3	5	70	31x13	0.7	22	21	
FK-080GK4-4520H	4	4.5	62	32x13	0.8	22	21	
FK-100GK4-2020H	5	2	25	32x13	1.0	22	21	
FK-080JK6-1230H	3	12	90	38x16	0.8	24	32	
FK-100JK6-1030H	5	10	56	40x18	1.0	24	32	

*Mounting pitches are reference data for design.



Corporate Information	Our Business	CSR	IR Information
› Message from the President › Management Philosophy › Company Outline › History › Officers and Organizational Structure › Operating Sites › Associated Companies	› Smelting and Refining › Mineral Resources Business › Electronic Components › Advance Materials › Environment and Recycling Business › Building Materials—SOFT CALM › Process of Creating Core Products	› The TOHO ZINC Group's CSR Initiatives › Our Code of Conduct	› IR Information › Management Policy and Strategy › Annual Report › Financial Data › Disclaimer