

# FINEMET®

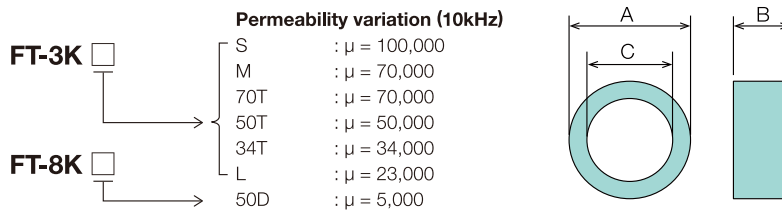
## Nanocrystalline soft magnetic material EMC Components

For signal lines, DC and AC power lines and Output filters

### Specified selection of FINEMET® F series cores with various permeability

FINEMET® common mode chock core, F series with various permeability from low to high permeability by suitable materials, can be applied for variety of noise level.

#### [Designation]



Product code	Part number	Finished dimension (mm)			Ae	Lm	Weight (g)	AL value ( $\mu\text{H}/\text{N}^2$ )		Permeability (10kHz)
		A Max.	B Max.	C Min.	(mm <sup>2</sup> ) TYP.	(mm) TYP.		10kHz	100kHz	
F1AH1227	FT-3KM F1208MS	14.0	3.9	6.8	2.6	32.5	4	7.9	2.2	70,000
F1AH1150	FT-3K70T F1613Y	17.8	8.0	10.7	7.9	45.2	4	16.5	5.3	70,000
F1AH1228	FT-3K34T F1613Y	17.8	8.0	10.7	7.7	45.2	4	7.3	3.6	34,000
F1AH1229	FT-3KS F2516CS	27.9	12.5	13.6	28.8	63.2	21	67.0	13.3	100,000
F1AH1203	FT-3KL F2516C	27.9	12.5	13.6	28.8	63.2	21	15.3	11.3	23,000
F1AH1204	FT-8K50D F2516C	27.9	12.5	13.6	28.8	63.2	21	2.9	2.9	5,000
F1AH1158	FT-3KS F2520C	27.6	12.8	17.4	19.2	70.7	14	34.1	6.8	100,000
F1AH1230	FT-3K70T F2520C	27.6	12.8	17.4	19.2	70.7	14	23.9	8.2	70,000
F1AH1231	FT-3K34T F2520C	27.6	12.8	17.4	18.7	70.7	14	11.3	5.7	34,000
F1AH1142	FT-3KS F3020C	32.8	12.5	17.6	40.0	78.5	27	66.4	13.3	100,000
F1AH1183	FT-3K50T F3020CS	32.8	12.5	17.6	37.6	79.3	28	29.8	18.5	50,000
F1AH1206	FT-3KL F3020C	32.8	12.5	17.6	41.7	78.9	27	15.3	11.3	23,000
F1AH1207	FT-8K50D F3020C	32.8	12.5	17.6	38.2	78.9	27	3.0	3.0	5,000
F1AH1156	FT-3KS F3020ES	32.8	17.8	17.5	53.1	78.4	35	85.1	17.0	100,000
F1AH1232	FT-3K50T F3020ES	32.8	17.8	17.5	53.1	78.4	35	42.6	26.4	50,000
F1AH1163	FT-3KS F4032E	42.3	17.8	29.1	46.8	113.1	40	52.0	10.4	100,000
F1AH1143	FT-3K70T F4032E	42.3	17.8	29.1	40.8	111.6	40	32.1	11.0	70,000
F1AH1184	FT-3K50T F4032ES	42.3	17.8	29.1	39.7	111.6	40	22.3	13.9	5,000
F1AH1159	FT-3KL F4032ES	42.3	17.8	29.1	46.8	113.1	40	12.0	8.9	23,000
F1AH1208	FT-8K50D F4032E	42.3	17.8	29.1	45.0	113.1	40	2.5	2.5	5,000
F1AH1149	FT-3KS F4025ES	43.1	18.5	22.5	85.5	102.0	72	109	26.4	100,000
F1AH1209	FT-3KL F4025E	43.1	18.5	22.5	91.9	103.8	74	25.6	18.9	23,000
F1AH1144	FT-3K70T F5040G	52.3	22.8	37.1	73.0	141.0	80	47.5	15.2	70,000
F1AH1101	FT-3KL F5040G	52.3	22.8	37.1	72.8	141.8	80	14.8	11.0	23,000
F1AH1106	FT-3K34T F5040G	52.3	22.8	37.1	72.8	141.8	80	21.9	11.0	34,000
F1AH1234	FT-3K34T F8162G	83.0	22.8	59.5	140.2	223.8	185	26.8	13.4	34,000
F1AH1151	FT-3KL F8162G	83.0	22.8	59.5	140.2	223.8	185	18.1	13.4	23,000
F1AH1235	FT-3K34T F10080G	104.7	25.7	75.3	139.5	286.2	336	20.8	10.4	34,000
F1AH0685	FT-3KL F10080G	104.7	25.7	75.3	138.8	285.1	336	14.1	10.4	23,000
F1AH1213	FT-3KL F160130H	166.9	30.5	123.9	277.5	455.5	1,029	17.6	13.0	23,000
F1AH1237	FT-3K34T F160130H	166.9	30.5	123.9	277.5	455.5	1,029	26.0	13.0	34,000
F1AH1233	FT-3K50T F160130HS	166.9	30.5	123.9	273.7	455.5	1,029	37.8	23.4	50,000
F1AH1164	FT-8K50D F160130H	166.9	30.5	123.9	292.5	455.5	1,029	4.0	4.0	5,000

- Insulation grade: Class B (130°C).

- No ozone layer depleting chemicals are used in these products or their manufacturing process.

- Ae: effective cross-section area, Lm: mean magnetic path length

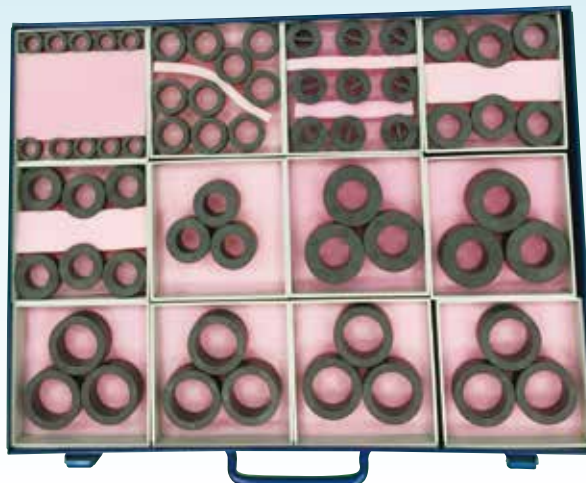
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# SAMPLE KIT

SAMPLE KIT is available for your feasibility test.

Please contact our local sales office or visit our website: <http://www.hitachi-metals.co.jp> for inquiries.

Part number	Qty
FT-3K70T F1613Y	5
FT-3K34T F1613Y	5
FT-3KS F2520C	5
FT-3K70T F2520C	5
FT-3KS F2516CS	3
FT-3KL F2516C	3
FT-8K50D F2516C	3
FT-3KS F3020C	3
FT-3K50T F3020CS	3
FT-3KL F3020C	3
FT-8K50D F3020C	3
FT-3KS F3020ES	3
FT-3KS F4025ES	3
FT-3KL F4025E	3
FT-3KS F4032E	3
FT-3K50T F4032ES	3
FT-3KL F4032ES	3
FT-8K50D F4032E	3



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