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Information provided is for reference only

Low Loss Material Characteristics

Low Loss Material Characteristics

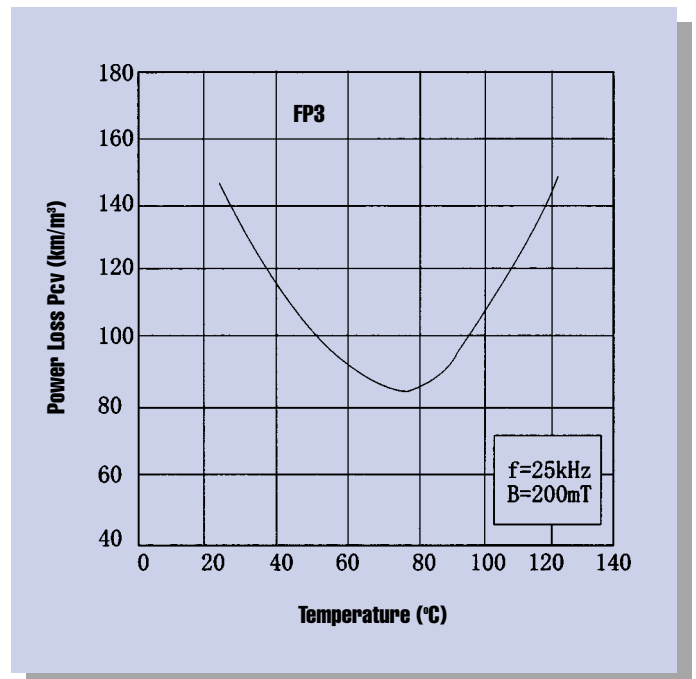
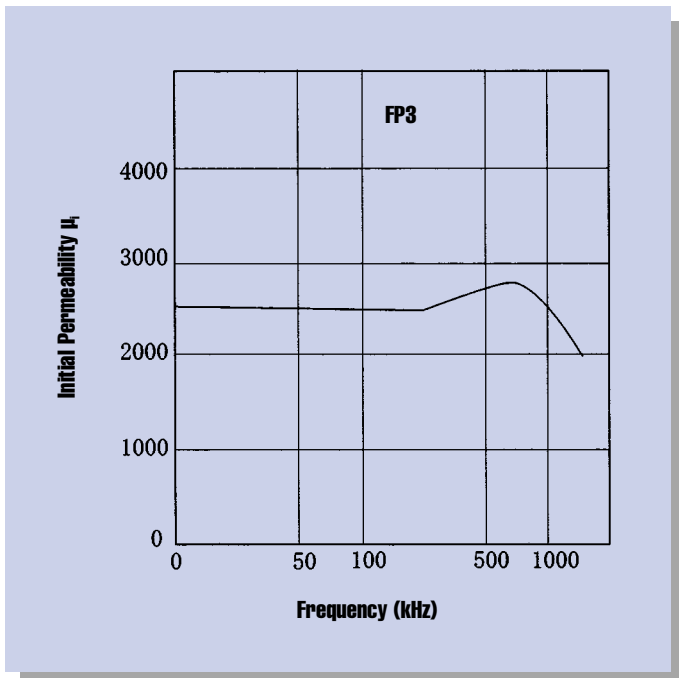
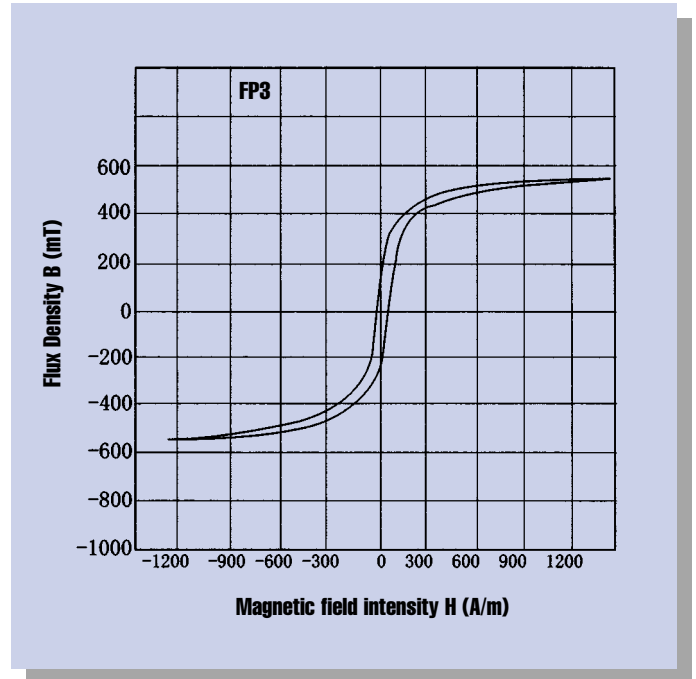
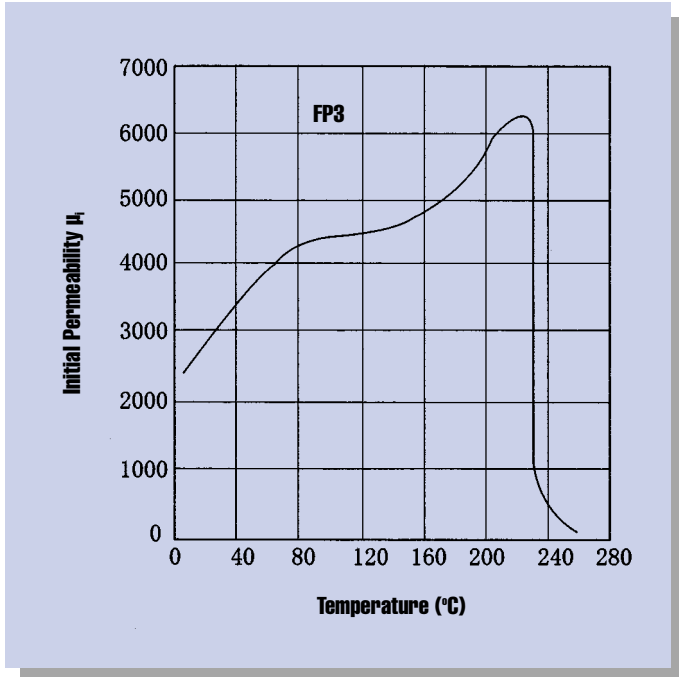
Characteristics		Unit		FP3	FP4
Initial Permeability μ_i				2500±25%	2300±25%
Amplitude Permeability μ_a				3200min	3000min
Saturation magnetic flux density(H=1194A/m) Bs	25°C	mT		510	510
	100°C	mT		390	390
Remanence Br	25°C	mT		110	100
	100°C	mT		60	55
Coercivity Hc	25°C	A/m		12	14
	100°C	A/m		10	9
Pcv	25kHz 200mT	25°C	kW/m ³	140	105
		100°C	kW/m ³	110	70
Power Loss	100kHz 200mT	25°C	kW/m ³	700	600
		100°C	kW/m ³	600	410
		120°C	kW/m ³	/	500
Electrical resistivity ρ		Ωm		9	6.5
Curie temperature Tc		°C		>230	>215
Density d		kg/m ³		4.8x10 ³	4.8x10 ³

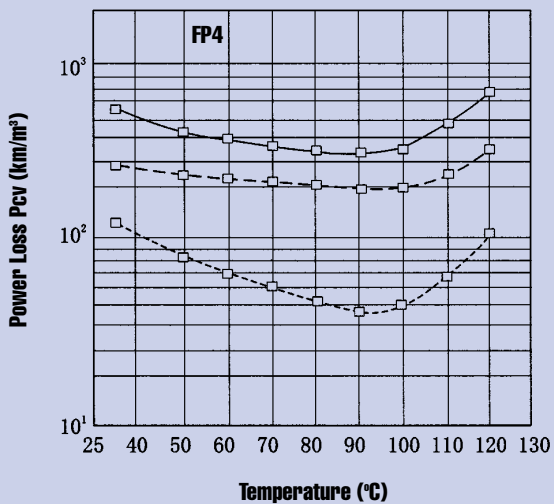
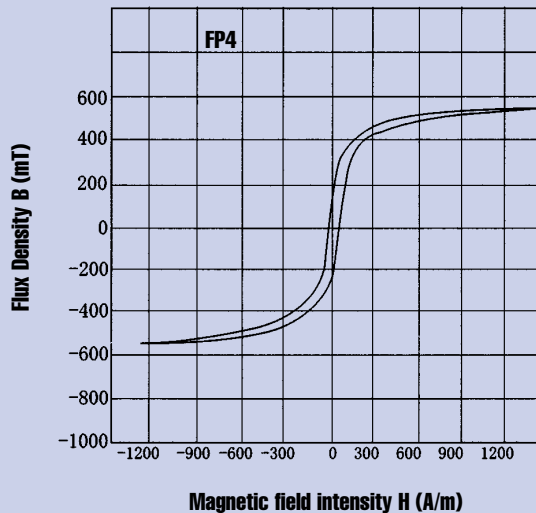
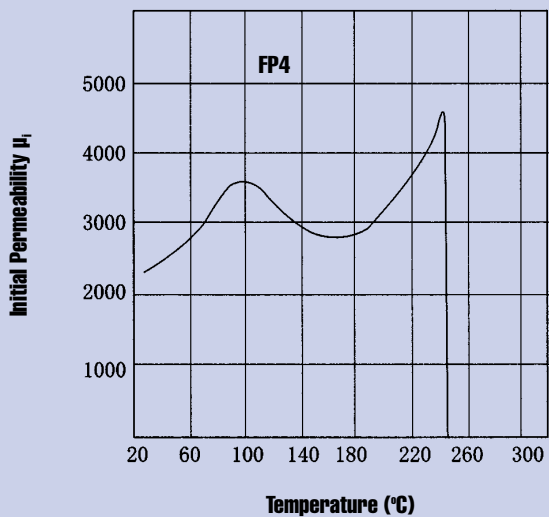
High Permeability Material Characteristics

High Permeability Material Characteristics

Characteristics	Unit	F05	F07	F10	F15
Initial Permeability μ_i		5000±25%	7000±25%	10000±30%	15000±30%
Relative temperature coefficient α_{μ_i} of initial permeability	X10 ⁻⁶ /°C	-0.5~2.0 (20~60°C)	-0.5~2 (20~60°C)	-0.5~1.5 (20~60°C)	-0.5~2.0 (20~60°C)
Relative loss factor $\tan\delta/\mu_i$ (10kHz)	X10 ⁻⁶	<6.5	<6.5	<7.0	<7.0
Disaccommodation factor [1 to 10 minutes]D _F	X10 ⁻⁶	<3.0	<2.5	<2.0	<2.0
Saturation magnetic flux density 25°C [H=1194A/m]B _s	mT	420	420	400	360
Remanence 25°C B _r	mT	140	100	90	100
Coercivity 25°C H _c	A/m	8	7.5	7.2	4.4
Electrical resistivity ρ	Ωm	1	0.3	0.15	0.15
Curie temperature T _c	°C	>130	>120	>120	>105
Density d	kg/m ³	4.8x10 ³	4.9x10 ³	4.9x10 ³	4.95x10 ³

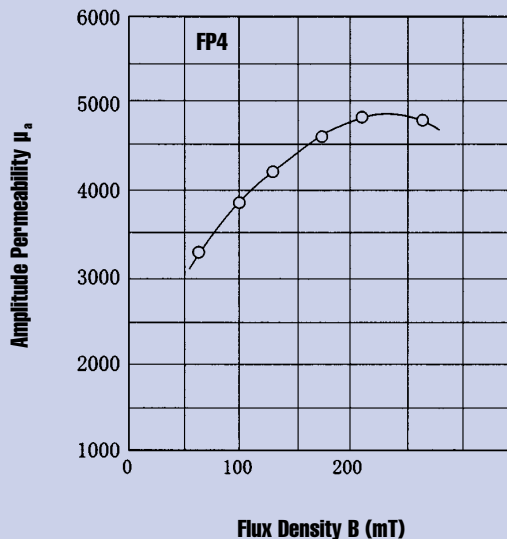
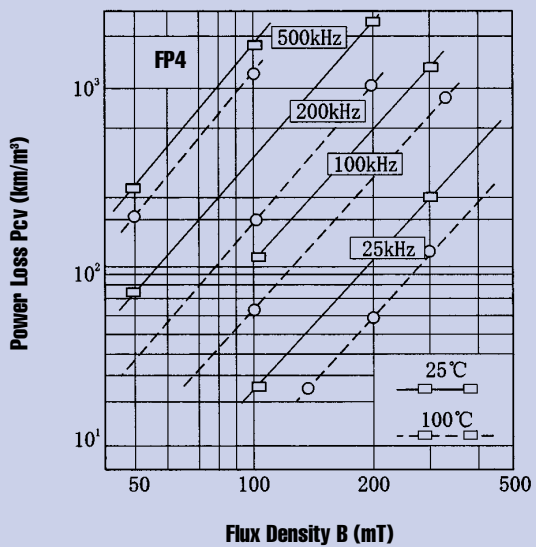
Low Loss Material Figures



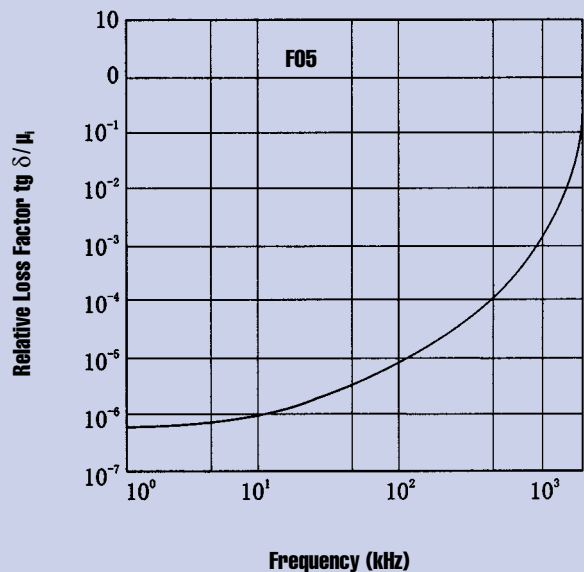
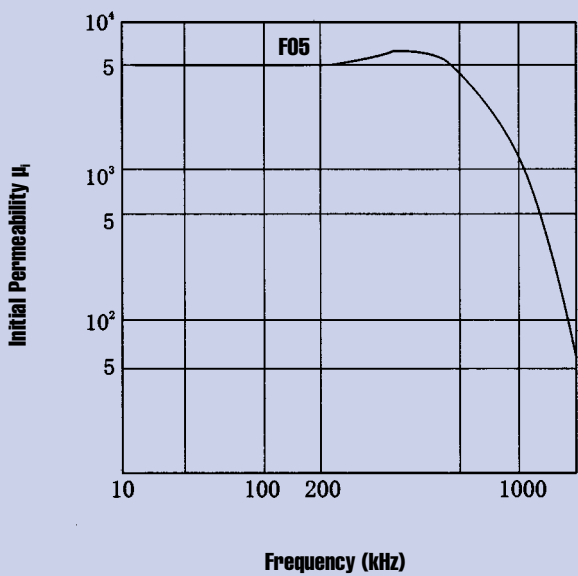
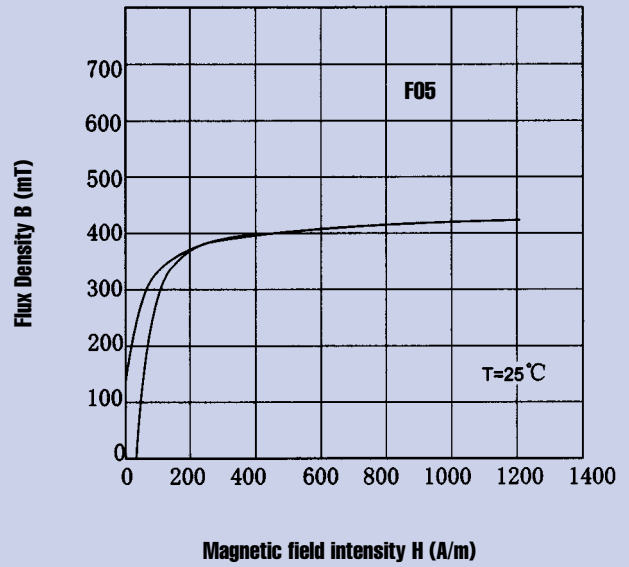
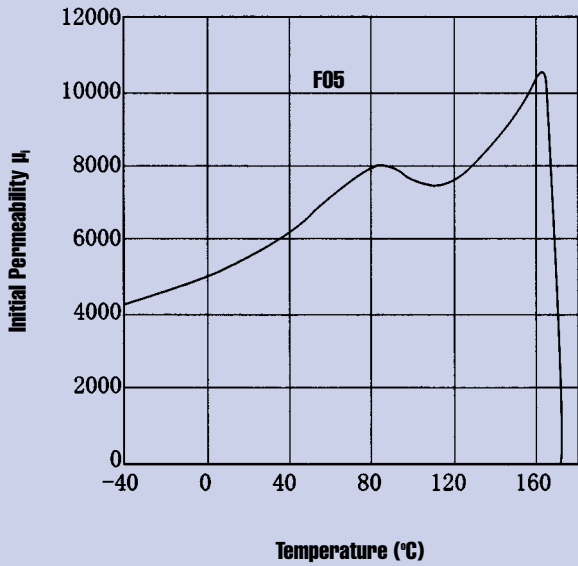


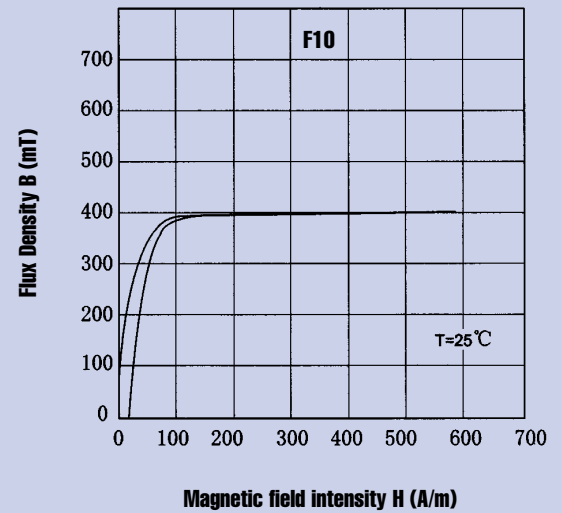
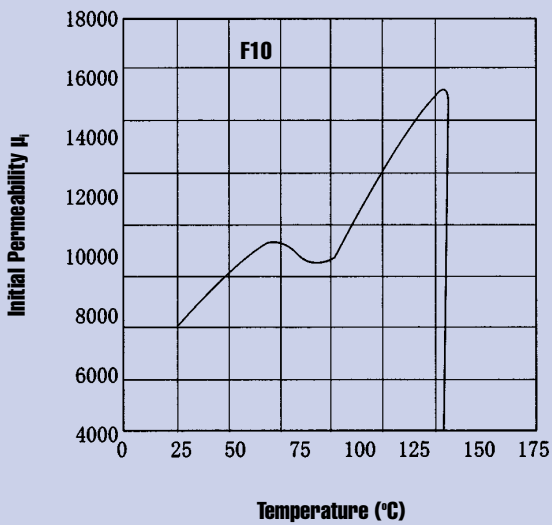
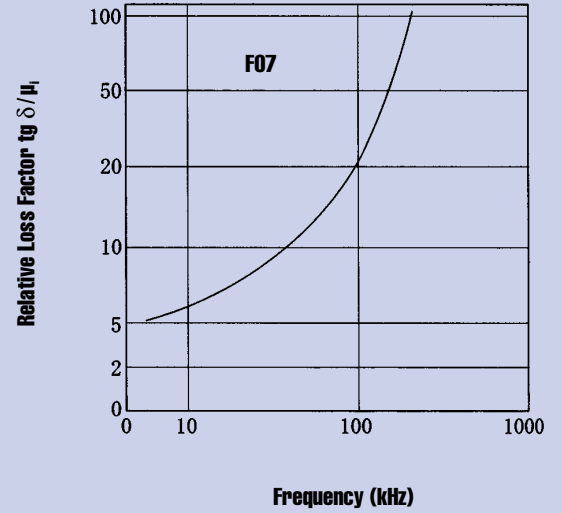
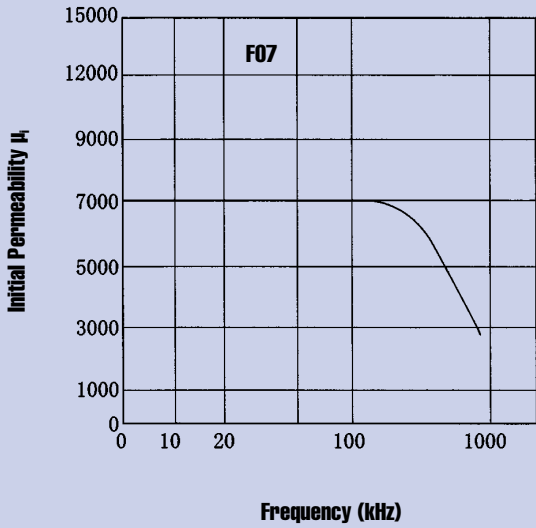
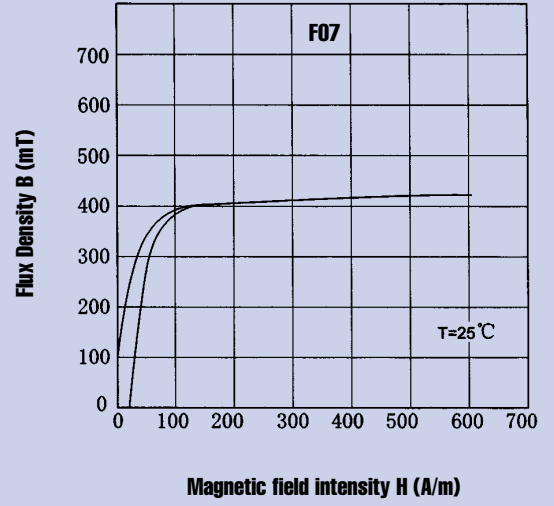
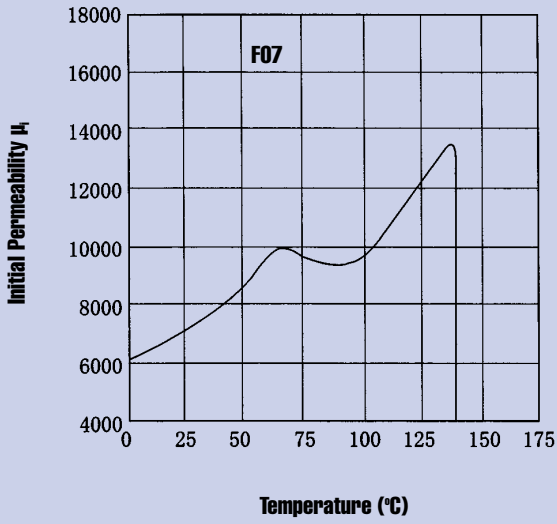
Testing Condition

- f=25kHz B=200mT -□- - -□- - -□-
- f=100kHz B=200mT -□- -□- -□-
- f=500kHz B=50mT -□- -□- -□-
- N=10Ts

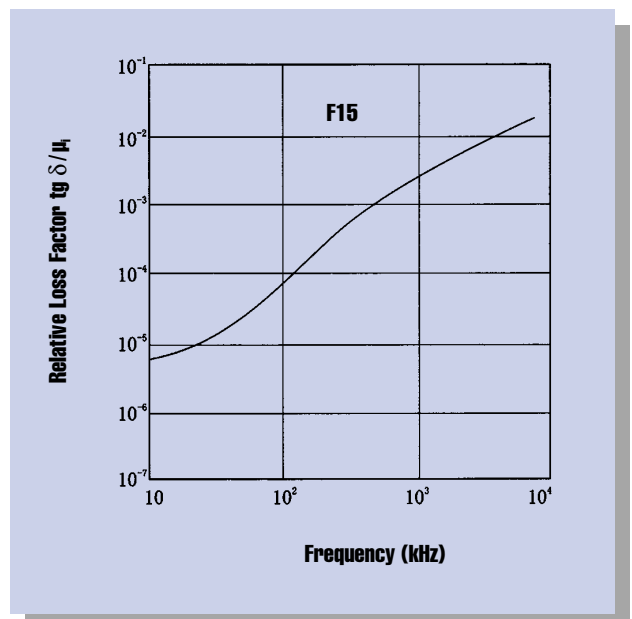
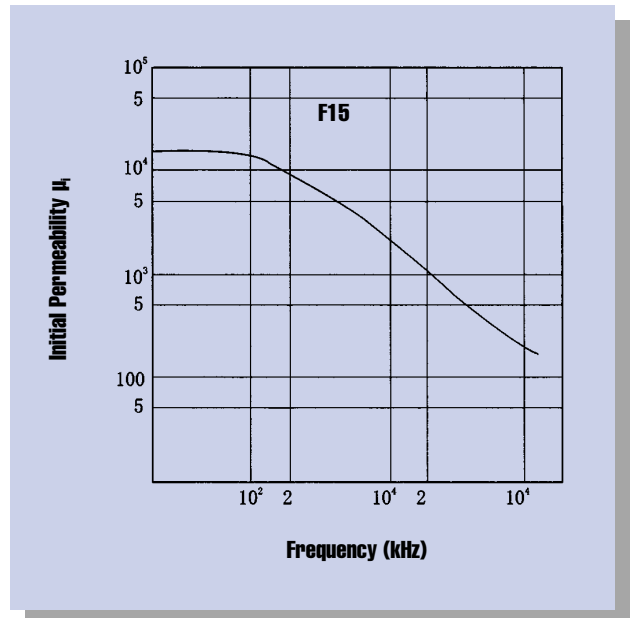
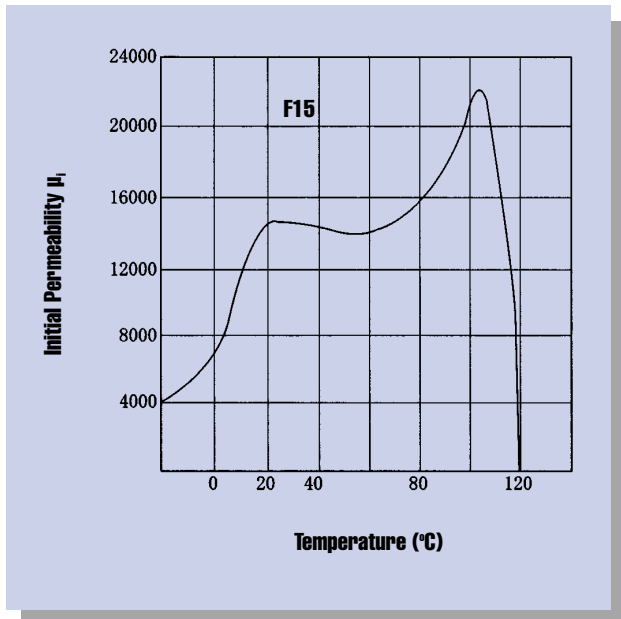
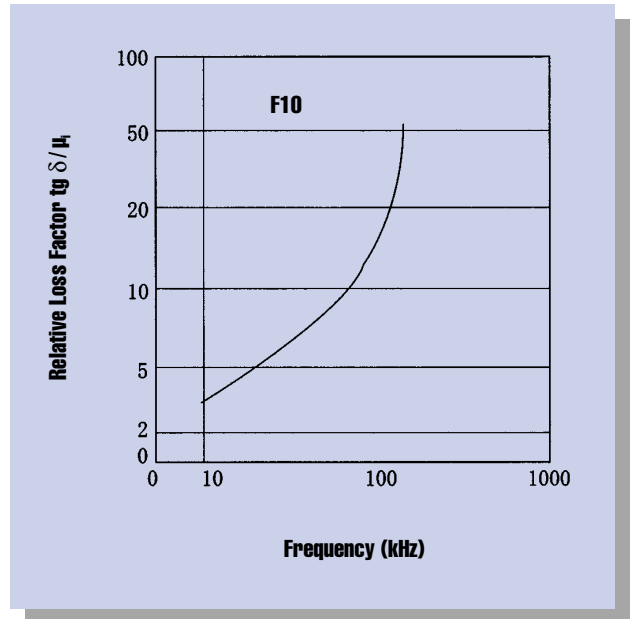
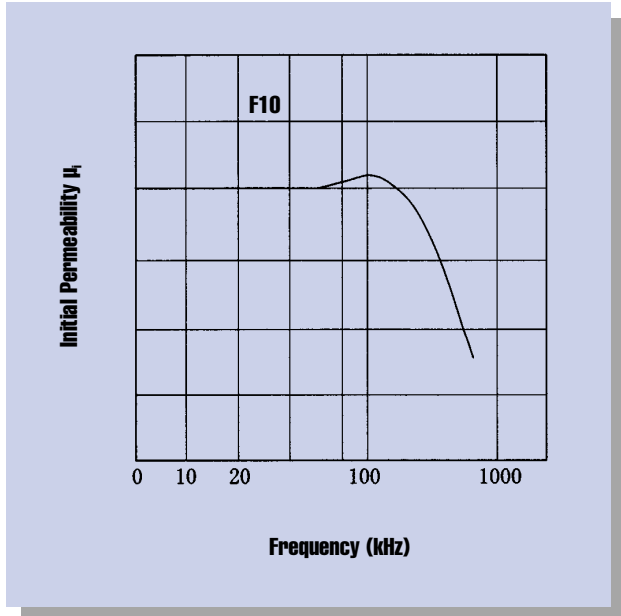


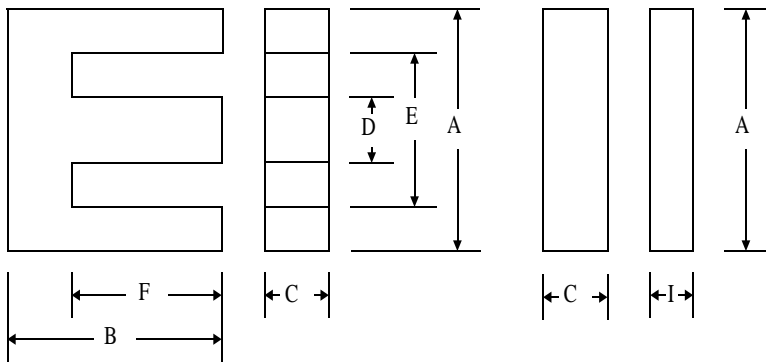
High Permeability Material Figures





Mn-Zn Ferrite Material Figures





EI-TYPE CORES

Ordering Code :

FP4 **EI22**
 ↑ ↑
 Material Core Size

EI-TYPE CORES

Dimensions (mm)

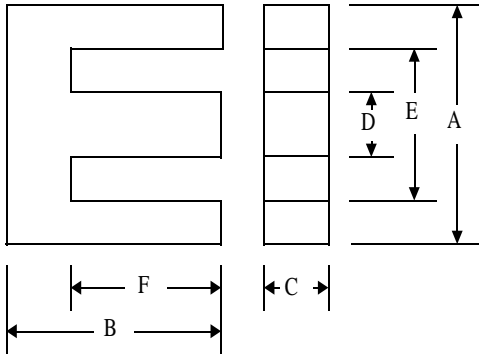
Cores	A	B	C	D	E	F	I
EI12.5	12.5+/-0.3	7.4+/-0.2	5.0+/-0.2	2.4+/-0.2	9.1min	5.1+/-0.2	1.5+/-0.2
EI16	16.0+/-0.4	12.4+/-0.3	4.8+/-0.2	4.0+/-0.2	11.7min	10.4+/-0.3	2.0+/-0.2
EI19	19.2+/-0.4	13.6+/-0.4	4.9+/-0.3	4.9+/-0.3	14.0min	10.7+/-0.3	2.4+/-0.2
EI22	22.0+/-0.6	15.0+/-0.4	5.8+/-0.3	5.8+/-0.3	15.6min	11.0+/-0.3	4.0+/-0.3
EI25	25.4+/-0.6	16.5+/-0.4	6.6+/-0.3	6.6+/-0.3	18.6min	13.2+/-0.3	3.0+/-0.3
EI28	28.0+/-0.6	17.5+/-0.4	10.8+/-0.3	7.2+/-0.3	18.6min	12.8+/-0.3	3.5+/-0.3
EI30	30.5+/-0.6	21.7+/-0.4	10.8+/-0.3	10.8+/-0.3	20.0min	16.8+/-0.3	5.5+/-0.3
EI33	33.0+/-0.6	24.2+/-0.4	12.8+/-0.3	9.7+/-0.3	23.8min	19.2+/-0.3	5.0+/-0.3
EI35	35.0+/-0.6	24.2+/-0.5	10.0+/-0.3	10.0+/-0.3	24.5min	18.2+/-0.3	5.0+/-0.3
EI35W	35.0+/-0.6	24.2+/-0.5	11.7+/-0.3	10.0+/-0.3	24.5min	18.2+/-0.3	5.0+/-0.3
EI40	40.0+/-0.7	27.3+/-0.5	11.8+/-0.3	11.8+/-0.3	26.8min	21.3+/-0.4	6.7+/-0.3
EI50	50.0+/-0.7	33.4+/-0.5	14.6+/-0.4	14.6+/-0.4	34.0min	24.8+/-0.4	9.0+/-0.3
EI60	60.0+/-0.8	35.9+/-0.5	15.6+/-0.4	15.6+/-0.4	44.1min	27.9+/-0.4	8.5+/-0.3

EI-TYPE CORES

Effective Parameters

AL(nH/N²)+/-25%

Cores	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ²)	Wt(g)	FP3	FP4	F05	F07	F10
EI12.5	1.44	14.4	20.6	298	1.9	1200	1200	2200	2750	4050min
EI16	1.84	19.7	34.9	685	3.3	1000	1000	1950	2400	3450min
EI19	1.50	24.0	39.0	1028	5.0	1200	1200	2350	2900	4000min
EI22	1.10	40.1	42.3	1697	9.8	1800	1800	3500	4350	5950min
EI25	1.10	44.3	48.5	2145	9.8	1800	1800	3500	4300	5750min
EI28	0.55	89.5	49.3	4399	22	3800	3800	7000	9000	12000min
EI30	0.50	115.6	58.2	6731	34	4000	3700			
EI33	0.57	124.9	67.3	8408	41	4200	4000			
EI35	0.60	107.0	68.1	731	36	3500	3200			
EI35W	0.50	126.0	68.1	8564	43	3200	3200			
EI40	0.50	150.0	76.5	11534	60	5100	4860			
EI50	0.40	231.0	94.1	21759	115	6450	6100			
EI60	0.40	272.0	111.8	30454	139	6250	5600			



EE/EF-TYPE CORES

Ordering Code :

FP4

Material

EE19

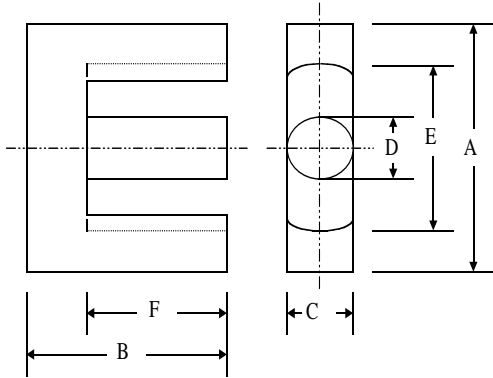
Core Size

EE/EF-TYPE CORES

Cores	Dimensions (mm)					
	A	B	C	D	E	F
EE5	5.25+/-0.1	2.65+/-0.1	1.95+/-0.1	1.35+/-0.1	3.8min	2.0+/-0.1
EE8.3	8.3+/-0.3	4.0+/-0.2	3.9+/-0.2	1.9+/-0.2	6.0min	3.0+/-0.2
EE10.2	10.2+/-0.3	5.5+/-0.2	4.9+/-0.2	2.5+/-0.2	7.5min	4.3+/-0.2
EF12.6	12.7+/-0.4	6.4+/-0.2	3.6+/-0.2	3.7+/-0.2	8.8min	4.7+/-0.3
EE13	13.0+/-0.4	6.0+/-0.2	5.9+/-0.3	2.6+/-0.2	9.8min	4.5+/-0.2
EE16	16.0+/-0.4	7.3+/-0.3	5.0+/-0.3	4.0+/-0.2	11.7min	5.3+/-0.2
EE16L	16.0+/-0.4	12.4+/-0.3	5.0+/-0.3	4.0+/-0.2	12.4min	10.4+/-0.3
EF16	16.1+/-0.6	8.2+/-0.3	4.6+/-0.3	4.7+/-0.3	11.3min	5.8+/-0.3
EE19	19.0+/-0.4	8.0+/-0.3	4.8+/-0.3	4.8+/-0.3	13.8min	5.7+/-0.3
EE19L	19.0+/-0.4	13.6+/-0.3	4.9+/-0.3	4.9+/-0.3	14.0min	11.3+/-0.3
EF20	20.0+/-0.6	9.2+/-0.3	5.7+/-0.3	5.8+/-0.3	14.1min	6.2+/-0.3
EE20	20.5+/-0.5	10.7+/-0.3	7.0+/-0.3	5.0+/-0.3	14.7min	7.0+/-0.3
EE23	22.7+/-0.5	11.0+/-0.3	10.2+/-0.3	7.5+/-0.3	16.4min	7.5+/-0.3
EE25	25.0+/-0.5	9.9+/-0.3	6.4+/-0.3	6.4+/-0.3	18.6min	6.9+/-0.3
EE25.4	25.4+/-0.6	9.6+/-0.3	6.8+/-0.3	6.4+/-0.3	18.6min	6.5+/-0.3
EF25	25.1+/-0.8	12.6+/-0.3	7.2+/-0.3	7.3+/-0.3	17.5min	9.0+/-0.3
EE28	28.0+/-0.6	10.5+/-0.3	11.5+/-0.3	7.7+/-0.3	18.6min	5.9+/-0.3
EE28L	28.0+/-0.6	16.8+/-0.3	10.6+/-0.3	7.2+/-0.3	18.6min	12.3+/-0.3
EF30	30.5+/-0.6	15.0+/-0.3	7.0+/-0.3	6.9+/-0.3	19.5min	10.5+/-0.3
EE32	32.1+/-0.8	12.9+/-0.3	7.7+/-0.4	9.2+/-0.3	22.7min	8.2+/-0.3
EF32	32.1+/-0.8	16.1+/-0.3	9.2+/-0.4	9.3+/-0.3	22.7min	11.5+/-0.3
EE33	33.0+/-0.6	14.0+/-0.3	12.7+/-0.3	9.7+/-0.3	22.8min	9.6+/-0.3
EE35	35.0+/-0.6	14.6+/-0.3	9.2+/-0.3	9.4+/-0.3	24.8min	9.5+/-0.3
EE40	40.0+/-0.7	17.0+/-0.3	11.8+/-0.3	11.8+/-0.3	26.8min	10.4+/-0.2
EE41	40.6+/-0.7	16.5+/-0.3	12.5+/-0.3	12.5+/-0.3	28.6min	10.5+/-0.3
EE42	42.0+/-0.7	21.2+/-0.4	15.0+/-0.4	12.0+/-0.4	29.5min	15.0+/-0.3
EE42W	42.0+/-0.7	21.2+/-0.4	19.9+/-0.4	12.0+/-0.4	29.5min	15.0+/-0.3
EE46	46.4+/-0.7	18.6+/-0.3	9.4+/-0.3	15.9+/-0.3	31.6min	11.4+/-0.3
EE55	55.2+/-1.1	27.5+/-0.3	20.6+/-0.4	17.0+/-0.3	38.1min	18.8+/-0.3
EE65	65.2+/-1.3	32.5+/-0.3	27.4+/-0.3	19.7+/-0.3	44.2min	22.6+/-0.4

EE/EF-TYPE CORES

Cores	Effective Parameters					AL(nH/N ²) +/-25%				
	C1(mm ²)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	FP3	FP4	F05	F07	F10
EE5	4.78	2.6	12.6	33	0.2	285	285	450	530	830min
EE8.3	2.40	8.0	19.2	153	1.0	590	590	900	1100	1250min
EE10.2	2.10	12.7	26.1	331	1.8	810	810	1400	1750	1650min
EF12.6	2.40	12.4	29.7	369	2.0	900	800	1350	1700	2600min
EE13	1.70	17.2	30.0	514	3.6	1000	1000	1650	2100	3100min
EE16	1.92	18.4	35.5	655	3.3	1100	1100	2090	2700	3500min
EE16L	2.80	19.6	55.2	1080	5.3	750	750	1590	1980	2600min
EF16	1.87	20.1	37.6	750	4.0	800	800	2000	2600	3550min
EE19	1.68	23.3	39.2	914	4.6	1200	1200	2240	3000	3600min
EE19L	2.65	23.4	62.1	1450	7.5	840	840	1820	2280	2450min
EF20	1.20	35.6	42.2	1505	7.8	1550	1460	2800	3600	4850min
EE20	1.21	39.0	47.1	1840	9.7	1900	1800	1800	2300	3000min
EE23	0.75	70.0	49.6	3469	17.5	2300	2300			
EE25	1.25	39.6	49.5	1963	10.2	1900	1900	3550	4450	5600min
EE25.4	1.15	43.4	48.2	2091	10.0	1800	1800	3410	4400	5500min
EF25	1.34	33.5	44.9	1500	14.8	1900	1900	4000	4900	6500min
EE28	0.57	99.8	48.1	4801	23.5	4000	4000			
EE28L	0.82	87.4	73.1	6391	33.5	2806	2650			
EF30	1.10	59.4	65.5	3879	22.0	1900	1900			
EE32	0.92	70.1	61.3	4295	21.5	2500	2500			
EF32	0.89	83.0	74.0	6140	30.0	2400	2400			
EE33	0.57	124.0	66.1	8192	40.6	4000	4000			
EE35	0.80	86.2	69.3	5973	31	2600	2600	6050	7660	7500min
EE40	0.50	153.0	76.5	11710	60	4000	4000			
EE41	0.50	152.0	77.1	11722	561	4200	4200			
EE42	0.50	184.3	96.8	17843	90	4700	4700			
EE42W	0.40	235.0	97.4	22889	120	5700	5700			
EE46	0.60	140.7	84.6	11883	62	3700	3700			
EE55	0.35	354.0	123.0	43542	216	6700	6700			
EE65	0.27	540.0	147.0	79000	410	8000	8000			



ER/ETD-TYPE CORES

Ordering Code :

FP4

Material

ER35L

Core Size

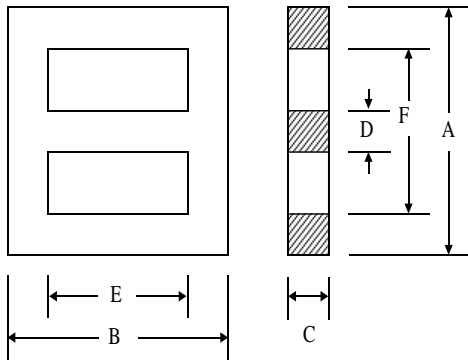
ER/ETD-TYPE CORES

CORES	Dimensions (mm)					
	A	B	C	D	E	F
ER9.5	9.35+/-0.2	2.45+/-0.1	4.90+/-0.1	3.40+/-0.1	7.40min	1.65+/-0.1
ER11	10.85+/-0.2	2.45+/-0.1	5.90+/-0.1	4.13+/-0.2	8.70min	1.65+/-0.1
ER14.5	14.50+/-0.2	2.95+/-0.1	6.70+/-0.1	4.70+/-0.1	11.80min	1.65+/-0.1
ER25	25.3+/-0.6	9.3+/-0.3	7.5+/-0.3	7.5+/-0.3	19.8min	6.2+/-0.3
ER28	28.5+/-0.6	14.0+/-0.3	11.4+/-0.3	9.9+/-0.3	21.2min	9.6+/-0.3
ER28L	28.5+/-0.6	16.9+/-0.3	11.4+/-0.3	9.9+/-0.3	21.2min	12.5+/-0.3
ETD29	29.8+/-0.8	15.8+/-0.2	9.5+/-0.3	9.5+/-0.3	22.0min	11.0+/-0.3
ER30	30.0+/-0.8	17.5+/-0.3	11.2+/-0.3	9.9+/-0.3	22.5min	12.6+/-0.3
ETD34	34.2+/-0.8	17.3+/-0.2	10.8+/-0.3	10.8+/-0.3	25.6min	12.1+/-0.3
ER35L	35.0+/-0.7	21.0+/-0.3	11.3+/-0.4	11.3+/-0.3	25.3min	15.0+/-0.3
ER35	35.0+/-0.7	16.8+/-0.3	11.3+/-0.4	11.3+/-0.3	25.3min	10.8+/-0.3
ETD39	39.1+/-0.9	19.8+/-0.2	12.6+/-0.4	12.5+/-0.3	29.3min	14.6+/-0.4
ER40	40.0+/-0.8	22.4+/-0.3	13.3+/-0.3	13.3+/-0.3	29.0min	15.4+/-0.3
ER40W	40.2+/-0.5	21.4+/-0.3	15.5+/-0.3	15.5+/-0.3	29.4min	15.4+/-0.3
ER40L	41.0+/-0.7	24.0+/-0.3	13.0+/-0.3	13.0+/-0.3	30.0min	17.0+/-0.3
ER42	42.0+/-0.8	22.0+/-0.3	15.2+/-0.3	15.2+/-0.3	30.5min	15.4+/-0.3
ETD44	44.0+/-1.0	22.3+/-0.2	14.8+/-0.4	14.8+/-0.4	32.5min	16.5+/-0.4
ER45	45.0+/-0.8	24.0+/-0.3	14.8+/-0.4	14.8+/-0.3	32.0min	17.6+/-0.3
ER49	49.0+/-0.8	27.0+/-0.3	17.2+/-0.4	17.2+/-0.3	36.5min	18.7+/-0.3
ETD49	49.0+/-1.0	24.7+/-0.3	16.3+/-0.4	16.3+/-0.4	36.1min	18.1+/-0.4
ER54	54.2+/-0.8	25.1+/-0.4	18.9+/-0.4	18.9+/-0.3	40.5min	17.5+/-0.3
ER56	56.0+/-0.8	30.7+/-0.3	20.4+/-0.3	20.4+/-0.3	44.0min	22.9+/-0.3

ER/ETD-TYPE CORES

CORES	Effective Parameters					AL(nH/N ²) +/-25%				
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	FP3	FP4	F05	F07	F10
ER9.5	1.67	8.5	14.2	120	1.0		950	1150	1300	2520min
ER11	1.23	12.1	14.9	180	1.3		1400	2100	2380	4480min
ER14.5	1.08	17.6	19.0	333	2.3		1700	2200	2600	4620min
ER25	1.09	44.3	48.3	2140	12	2050	1920			
ER28	0.79	82.1	64.0	5254	28	3080	2870			
ER28L	0.86	85.6	73.2	6266	33	2660	2520			
ETD29	0.95	73.6	70.6	5196	28	2100	2200			
ER30	0.99	85.5	75.4	6673	32	2600	2500			
ETD34	0.81	97.1	78.6	7632	40	2450	2400			
ER35L	0.84	107.0	90.8	9716	53	2580	2600			
ER35	0.68	107.0	72.8	7790	51	2770	2770			
ETD39	0.74	125.0	92.1	1151	60	2800	2700			
ER40	0.66	149.0	98.0	14602	78	3500	3500			
ER40W	0.50	187.7	93.9	17415	78	3800	3300			
ER40L	0.70	145.0	102.8	14906	80	3200	3200			
ER42	0.55	183.0	96.3	17623	94	4500	4500			
ETD44	0.59	173.0	103.0	17720	94	4110	4000			
ER45	0.60	189.5	105.0	19894	108	5000	4670			
ER49	0.50	241.0	118.0	28460	148	6500	6030			
ETD49	0.53	217.6	112.2	24417	124	3700	4400			
ER54	1.00	594.1	48.7	28958	181	4800	4800			
ER56	0.62	303.1	188.2	41896	220	7100				

ET/UT-TYPE CORES



ET Type

Ordering Code :

F07

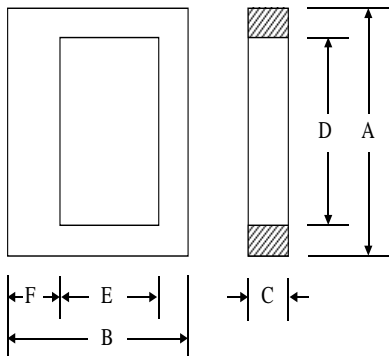
Material

ET28

Core Size

ET/UT-TYPE CORES

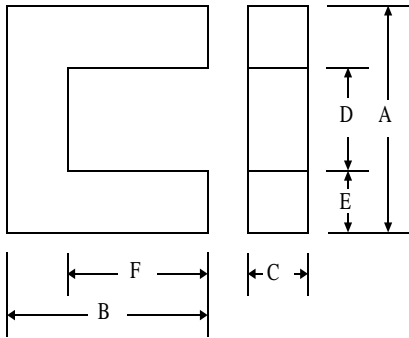
Cores	Dimensions (mm)					
	A	B	C	D	E	F
ET20	20.1+/-0.4	20.1+/-0.4	4.4+/-0.2	4.0+/-0.2	15.7min	15.7min
ET24	24.2+/-0.5	24.2+/-0.5	4.0+/-0.3	4.0+/-0.2	18.9min	18.9min
ET28	28.7+/-0.5	28.7+/-0.5	5.0+/-0.3	5.0+/-0.3	22.2min	22.2min
ET35	35.5+/-0.6	35.5+/-0.6	7.5+/-0.4	7.5+/-0.3	26.5min	26.5min
UT20	20.6+/-0.3	14.1+/-0.3	4.6+/-0.2	15.7min	7.3min	4.1+/-0.2
UT25	25.6+/-0.4	17.6+/-0.3	5.2+/-0.3	19.3min	8.7min	3.4+/-0.2
UT30	30.0+/-0.4	19.8+/-0.3	6.4+/-0.3	22.4min	8.9min	4.2+/-0.2



UT Type

ET/UT-TYPE CORES

Cores	Effective Parameters					AL(nH/N ²) +/-30%		
	C1(mm ³)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	F05	F07	F10
ET20	2.96	17.6	52.1	917	4.5		3100	4400
ET24	3.31	18.0	60.0	1098	5.2		2600	3600
ET28	2.54	27.0	70.0	1972	9.9		3600	4800
ET35	1.46	58.3	85.2	4970	26.0		6000	8400
UT20	4.11	13.0	53.0	688	3.8		2140	3000
UT25	3.77	18.0	68.0	1203	6.4		2590	3350
UT30	2.85	27.0	77.0	2068	10.9		3460	4500



UU-TYPE CORES

Ordering Code :

F07
Material

UU10.5
Core Size

UU-TYPE CORES

Dimensions (mm)

Cores	A	B	C	D	E	F
UU8.6	8.6+/-0.2	6.5+/-0.3	3.6+/-0.2	4.0min	2.2+/-0.2	4.2+/-0.2
UU9.8	9.8+/-0.3	7.1+/-0.2	2.9+/-0.2	4.1min	2.9+/-0.2	4.3+/-0.2
UU10.1	10.1+/-0.3	7.5+/-0.3	2.9+/-0.2	3.9min	3.0+/-0.2	4.5+/-0.3
UU10.5	10.5+/-0.3	7.8+/-0.4	5.0+/-0.2	5.2min	2.4+/-0.2	5.3+/-0.3
UU15.7	15.7+/-0.6	9.7+/-0.3	6.0+/-0.3	6.3min	4.5+/-0.2	6.0+/-0.3
UU16	16.0+/-0.4	10.0+/-0.3	6.0+/-0.2	6.7min	4.6+/-0.2	6.0+/-0.3
UU20	19.7+/-0.3	17.7+/-0.2	6.0+/-0.2	7.4min	6.0+/-0.2	11.7+/-0.2
UU30	30.0+/-0.6	12.1+/-0.3	6.2+/-0.2	17.0min	6.2+/-0.3	6.1+/-0.3

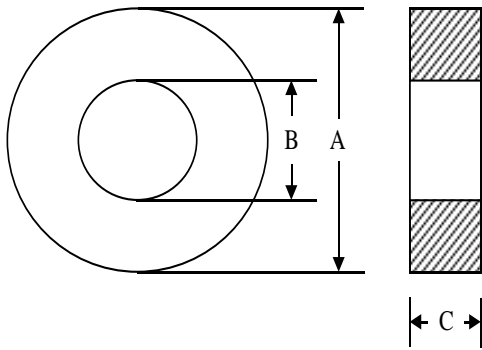
UU-TYPE CORES

Effective Parameters

AL(nH/N²) +/-25%

Cores	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	FP3	FP4	F05	F07	F10
UU8.6	4.10	7.8	32.2	251.9	1.3				960	1200min
UU9.8	4.30	8.1	34.3	276	1.4	690	500	930	1300	1600min
UU10.1	4.15	8.6	35.7	307	1.5				1005	1100min
UU10.5	3.25	12.7	39.9	506	2.8	820	720	1220	1650	2200min
UU15.7	2.01	24.8	50.0	1240	6.5	1400	1100	2120	2620	3250min
UU16	1.97	27.2	51.9	1413	7.4	1430	1140	2140	2720	4000min
UU20	2.25	36.0	81.0	2916	15.0			2100	2750	3800min
UU30	2.04	38.3	77.9	2986	15.3			3080	4300	6150min

Mn-Zn Product Specifications



T-TYPE CORES

Ordering Code :

F05
Material

T9x5x3
Core Size

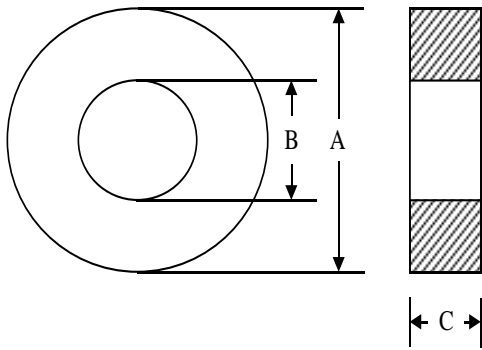
C
Coating

T-TYPE CORES

CORES	Dimensions (mm)			Effective Parameters				
	A	B	C	C1(mm ³)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)
T2.54x1.27x1.27	2.54+/-0.2	1.27+/-0.2	1.27+/-0.1	7.4	0.8	6	4.8	0.02
T2.54x1.18x2.06	2.54+/-0.2	1.18+/-0.2	2.06+/-0.2	4.2	1.4	5.8	8.2	0.04
T3.05x1.78x1.52	3.05+/-0.2	1.78+/-0.2	1.52+/-0.2	7.9	1	7.6	7.3	0.04
T3.51x1.78x1.27	3.51+/-0.2	1.78+/-0.2	1.27+/-0.2	7.6	1.1	8.3	9.1	0.04
T3.51x1.83x2.06	3.51+/-0.2	1.83+/-0.2	2.06+/-0.2	4.8	1.7	8.4	14.5	0.07
T3.94x2.24x1.27	3.94+/-0.2	2.24+/-0.2	1.27+/-0.2	9	1.1	9.7	10.5	0.05
T3.94x1.78x2.54	3.94+/-0.2	1.78+/-0.2	2.54+/-0.2	3.3	2.7	9	24.6	0.12
T3.94x2.24x2.06	3.94+/-0.2	2.24+/-0.2	2.06+/-0.2	5.5	1.8	9.7	17	0.08
T3.94x2.24x2.54	3.94+/-0.2	2.24+/-0.2	2.54+/-0.2	4.5	2.2	9.7	21	0.1
T4.95x1.57x1.00	4.95+/-0.2	1.57+/-0.2	1.0+/-0.2	6.1	1.7	10.2	17.3	0.08
T4.95x2.24x2.54	4.95+/-0.2	2.24+/-0.2	2.54+/-0.2	3.3	3.4	11.3	38.9	0.19
T5.84x3.05x1.52	5.84+/-0.2	3.05+/-0.2	1.52+/-0.2	6.6	2.1	14	29.6	0.15
T5.84x3.05x3.18	5.84+/-0.2	3.05+/-0.2	3.18+/-0.2	3.1	4.4	14	61.9	0.3
T5.84x3.05x4.57	5.84+/-0.2	3.05+/-0.2	4.57+/-0.2	2.2	6.4	14	89	0.44
T6.0x3.15x3.0	6.0+/-0.3	3.15+/-0.3	3.0+/-0.3	3.4	4.3	14.4	61.4	0.3
T7.62x3.05x4.78	7.62+/-0.3	3.05+/-0.3	4.78+/-0.3	1.5	10.9	16.8	183.1	0.9
T8.0x3.18x6.0	8.0+/-0.3	3.18+/-0.3	6.0+/-0.3	1.2	14.5	17.6	253.9	1.24
T9x5x3	9.0+/-0.3	5.0+/-0.3	3.0+/-0.3	3.7	6	22.3	133	0.6
T9x5x5	9.0+/-0.3	5.0+/-0.3	5.0+/-0.3	2.2	10	22.3	223	1
T9x5x7	9.0+/-0.3	5.0+/-0.3	7.0+/-0.3	1.6	14	22	307.9	1.51
T9.53x4.75x4.78	9.53+/-0.3	4.75+/-0.3	4.78+/-0.3	2	11.4	22.4	256.3	1.26
T10x5x7	10.0+/-0.3	5.0+/-0.3	7.0+/-0.3	1.3	17.5	23.6	412.3	2.02
T10x6x5	10.0+/-0.3	6.0+/-0.3	5.0+/-0.3	2.5	10	25.1	251.3	1.23
T12x6x4	12.0+/-0.4	6.0+/-0.3	4.0+/-0.3	2.3	12	28.3	339	1.5
T12x6x7.5	12.0+/-0.4	6.0+/-0.3	7.5+/-0.3	1.3	22.5	28.3	636.2	3.12
T12.7x7.93x4.5	12.7+/-0.4	7.93+/-0.3	4.5+/-0.3	3	10.8	32.4	348	1.6
T12.7x7.93x5.2	12.7+/-0.4	7.93+/-0.3	5.2+/-0.3	1	12.4	32.4	402	1.9
T12.7x7.93x6.35	12.7+/-0.4	7.93+/-0.3	6.35+/-0.3	2.1	15.2	32.4	491	2.2
T14x8x3	14.0+/-0.3	8.0+/-0.3	3.0+/-0.3	3.9	9	34.6	311	1.5
T14x8x7	14.0+/-0.4	8.0+/-0.3	7.0+/-0.3	1.7	21	34.6	725	3.8
T14x9x5	14.0+/-0.4	9.0+/-0.3	5.0+/-0.3	2.9	12.5	36.1	451	2.3
T16x9x5	16.0+/-0.4	9.0+/-0.3	5.0+/-0.3	2.3	17.5	39.3	687	3.1
T16x12x8	16.0+/-0.4	12.0+/-0.4	8.0+/-0.3	2.8	16	44	704	3.4
T18x10x7	18.0+/-0.4	10.0+/-0.4	7.0+/-0.3	1.6	28	44	1231	6
T18x10x10	18.0+/-0.4	10.0+/-0.4	10.0+/-0.4	1.1	40	44	1759	8.8
T22x14x8	22.0+/-0.4	14.0+/-0.4	8.0+/-0.3	1.8	32	56.5	1809	8.7
T22x14x10	22.0+/-0.4	14.0+/-0.4	10.0+/-0.4	1.4	40	56.5	2261	10.8

T-TYPE CORES

CORES	AL(nH/N ²) +/-30%					
	FP3	FP4	F05	F07	F10	F15
T2.54x1.27x1.27	460	410	845	1180	1690	
T2.54x1.18x2.06	750	690	1490	2050	2980	
T3.05x1.78x1.52	440	390	795	1110	1590	
T3.51x1.78x1.27	460	410	830	1160	1660	
T3.51x1.83x2.06	730	640	1300	1810	2600	
T3.94x2.24x1.27	360	320	700	870	1400	
T3.94x1.78x2.54	1060	950	1915	2640	3820	
T3.94x2.24x2.06	620	560	1133	1520	2260	
T3.94x2.24x2.54	710	640	1400	2000	2500	
T4.95x1.57x1.00	560	500	1000	1400	1990	
T4.95x2.24x2.54	1060	950	1910	2670	3830	5740
T5.84x3.05x1.52	510	450	955	1310	1890	
T5.84x3.05x3.18	1120	1000	2000	2800	4000	6000
T5.84x3.05x4.57	1610	1430	2870	4020	5740	
T6.0x3.15x3.0	1040	930	1870	2620	3740	5610
T7.62x3.05x4.78	2290	2045	4090	5740	8180	12270
T8.0x3.18x6.0	2910	2600	5170	7280	10350	15520
T9x5x3	980	880	1760	2470	3520	
T9x5x5	1645	1470	2940	4115	5870	
T9x5x7	2300	2050	4000	5600	8000	
T9.53x4.75x4.78	1800	1600	3200	4510	6400	9600
T10x5x7	2620	2340	4670	6560	9330	14000
T10x6x5	1430	1270	2550	3570	5100	
T12x6x4	1510	1350	2700	3800	5400	
T12x6x7.5	2500	2300	5000	7000	10000	
T12.7x7.93x4.5	1190	1050	2120	2980	4270	
T12.7x7.93x5.2	1375	1227	2455	3437	4910	
T12.7x7.93x6.35	1665	1487	2935	4190	5870	
T14x8x3	940	840	1670	2350	3350	
T14x8x7	2190	1956	3920	5480	7840	
T14x9x5	1240	1100	2210	3090	4420	
T16x9x5	1610	1430	2870	4020	5750	
T16x12x8	1290	1150	2300	3220	4600	
T18x10x7	2300	2054	4110	5760	8230	
T18x10x10	3290	2940	5880	8230	11750	
T22x14x8	2020	1804	3620	5060	7230	
T22x14x10	2530	2259	4520	6330	9040	



T-TYPE CORES

Ordering Code :

F05
Material

T9x5x3
Core Size

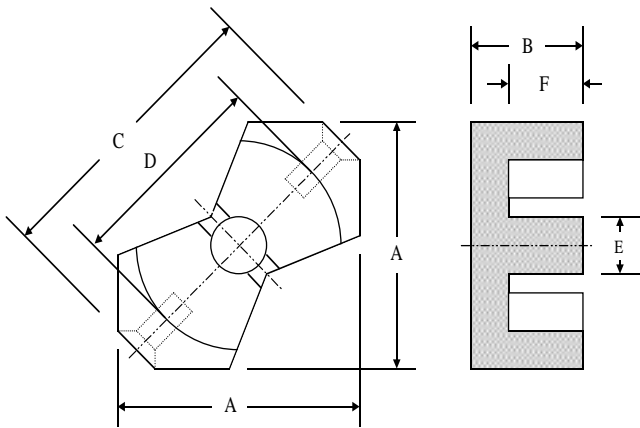
C
Coating

T-TYPE CORES

CORE	Dimensions (mm)			Effective Parameters				
	A	B	C	C1(mm ³)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)
T22x14x12.7	22.0+/-0.4	14.0+/-0.4	12.7+/-0.4	1.1	50.8	56.5	2873	14.1
T25x15x8	25.0+/-0.4	15.0+/-0.4	8.0+/-0.3	1.6	40	62.8	2513	12.4
T25x15x10	25.0+/-0.4	15.0+/-0.4	10.0+/-0.4	1.3	50	62.8	3141	15.2
T25x15x13	25.0+/-0.4	15.0+/-0.4	13.0+/-0.4	1	65	62.8	4084	20
T25x15x15	29.0+/-0.5	15.0+/-0.4	15.0+/-0.4	0.8	75	62.8	4172	23.3
T29x19x7.49	29.0+/-0.5	19.0+/-0.4	7.5+/-0.3	13.3	37.5	75.4	2823	13
T29x19x15.2	29.0+/-0.5	19.0+/-0.4	15.2+/-0.4	26.9	76	75.4	5730	27.5
T31x19x6	31.0+/-0.5	19.0+/-0.5	6.0+/-0.3	1.6	36	78.5	2827	13.2
T31x19x7	31.0+/-0.5	19.0+/-0.5	7.0+/-0.3	1.4	42.0	78.5	3298	15.4
T31x19x8	31.0+/-0.5	19.0+/-0.5	8.0+/-0.3	1.6	48.0	78.5	3769	18.1
T31x19x9	31.0+/-0.5	19.0+/-0.5	9.0+/-0.3	1.5	54.0	78.5	4241	19.8
T31x19x12	31.0+/-0.5	19.0+/-0.5	12.0+/-0.4	1.1	72.0	78.5	5654	27.0
T31x19x13	31.0+/-0.5	19.0+/-0.5	13.0+/-0.4	1.0	78.0	78.5	6126	29.0
T36x23x15	36.0+/-0.6	23.0+/-0.5	15.0+/-0.4	0.9	94.1	93.4	8789	41.4
T37x22x10	37.0+/-0.6	22.0+/-0.5	10.0+/-0.4	1.2	75.0	92.7	6950	34.6
T37x22x13	37.0+/-0.6	22.0+/-0.5	13.0+/-0.4	1.1	97.5	92.7	9035	41.9
T37x22x14	37.0+/-0.6	22.0+/-0.5	14.0+/-0.4	0.7	105	92.7	9731	48.1
T37x22x15	37.0+/-0.6	22.0+/-0.5	15.0+/-0.4	0.9	112	92.7	10426	51
T40x24x16	40.0+/-0.6	24.0+/-0.5	16.0+/-0.4	0.8	125	96.3	12100	61
T44.5x30x13	44.5+/-0.6	30.0+/-0.5	13.0+/-0.4	1.2	93	114	10600	53
T48x27x15	48.0+/-0.6	27.0+/-0.5	15.0+/-0.4	0.7	157	115	17990	86
T48x30x15	48.0+/-0.6	30.0+/-0.5	15.0+/-0.4	0.9	133	118	15700	78
T75x44x20	75.0+/-1.5	44.0+/-1.0	20.0+/-0.8	0.6	310	187	57970	277
T100x50x10	100.0+/-2.0	50.0+/-1.5	10.0+/-0.8	0.9	250	236	59000	283

T-TYPE CORES

CORES	AL(nH/N²) +/-30%					
	FP3	FP4	F05	F07	F10	F15
T22x14x12.7	3210	2866	5740	8040	11480	
T25x15x8	2290	2040	4090	5720	8200	
T25x15x10	2860	2550	5110	7150	10220	
T25x15x13	3720	3322	6640	9300	13270	
T29x15x15	4290	3830	7660	10730	15330	
T29x19x7.49	1770	1580	3170	4430	6340	
T29x19x15.2	3600	3220	6440	9020	12890	
T31x19x6	1640	1465	2940	4110	5880	
T31x19x7	1919	1713	3426	4797	6853	
T31x19x8	2200	1965	3920	5480	7830	
T31x19x9	2460	2197	4400	6168	8810	
T31x19x12	3280	2930	5870	8220	11740	
T31x19x13	3560	3180	6360	8910	12730	
T36x23x15	3600	3210	6430	9000	12860	
T37x22x10	2910	2600	5200	7280	10350	
T37x22x13	3780	3380	6750	9460	13450	
T37x22x14	4070	3630	7270	10180	14550	
T37x22x15	4360	3900	7790	10900	15500	
T40x24x16	4600	3900	9000	12300	16400	
T44.5x30x13	2900	2500	5600	7700	10300	
T48x27x15	4800	4100	9500	12900	17200	
T48x30x15	3900	3400	7800	10600	14000	
T75x44x20			10665			
T100x50x10			6951			



RM-TYPE CORES

Ordering Code :

FP4
Material

RM6
Core Size

RM-TYPE CORES

Cores	Dimensions (mm)					
	A	B	C	D	E	F
RM4	9.6+/-0.2	5.2+/-0.1	11.6+/-0.2	8.2+/-0.3	3.8+/-0.1	3.6+/-0.1
RM5	12.1+/-0.3	5.2+/-0.1	14.7+/-0.3	10.4+/-0.3	4.8+/-0.1	3.3+/-0.1
RM6	14.4+/-0.3	6.2+/-0.1	17.6+/-0.3	12.7+/-0.3	6.3+/-0.1	4.1+/-0.1
RM8	19.4+/-0.4	8.2+/-0.1	22.8+/-0.5	17.3+/-0.3	8.5+/-0.2	5.5+/-0.1
RM10	24.5+/-0.6	9.3+/-0.1	27.9+/-0.7	21.7+/-0.5	10.7+/-0.2	6.4+/-0.2
RM12	29.2+/-0.6	11.8+/-0.2	36.8+/-0.7	25.5+/-0.5	12.6+/-0.2	8.6+/-0.2
RM14	34.2+/-0.6	14.4+/-0.2	41.6+/-0.6	29.5+/-0.5	14.8+/-0.3	10.6+/-0.2

RM-TYPE CORES

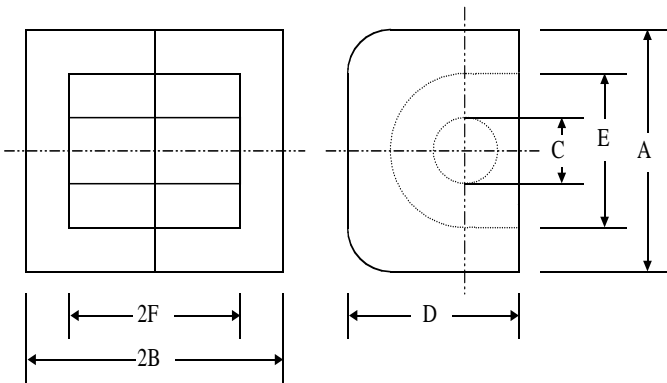
Cores	Effective Parameters					AL(nH/N ²) +/-25%				
	C1(mm ³)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	FP3	FP4	F05	F07	F10
RM4	1.62	13.9	22.5	313	1.7	1060	1000			
RM5	0.94	23.8	22.3	530	3.2	2600	2000	3500		4690min
RM6	0.78	37	29	1050	5.5	3100	2400	4300		6020min
RM8	0.59	64	38	2400	12.5	4100	3300	5700		8750min
RM10	0.45	98	44	4310	23	5500	4200	7600		11200min
RM12	0.40	140	57	7960	42	6920	6380			
RM14	0.40	178	71	12600	70	7690	7070			

EP-TYPE CORES

Ordering Code :

F10
Material

EP13
Core Size



EP-TYPE CORES

Dimensions (mm)

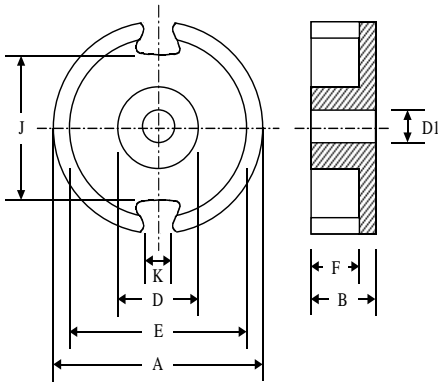
Cores	A	B	C	D	E	F
EP7	9.2+/-0.2	3.7+/-0.2	3.4+/-0.3	6.4+/-0.2	7.4+/-0.2	2.6+/-0.2
EP10	11.5+/-0.3	5.1+/-0.2	3.3+/-0.2	7.7+/-0.2	9.4+/-0.2	3.7+/-0.2
EP13	12.5+/-0.3	6.5+/-0.3	4.4+/-0.2	9.0+/-0.2	10.0+/-0.3	4.8+/-0.2
EP17	18.1+/-0.4	8.4+/-0.4	5.7+/-0.2	11.0+/-0.3	12.0+/-0.4	5.7+/-0.2
EP20	24.0+/-0.5	10.7+/-0.2	8.8+/-0.3	15.0+/-0.4	16.5+/-0.4	6.9+/-0.2

EP-TYPE CORES

Effective Parameters

AL(nH/N²) +/-25%

Cores	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ²)	Wt (g)	FP3	FP4	F05	F07	F10
EP7	1.52	10.3	15.7	163	1.4	1200	1100	2000	3640	4200min
EP10	1.70	11.3	19.2	218	2.8	1100	1000	2000	3360	3860min
EP13	1.24	19.6	24.2	476	4.9	1800	1600	2800	4200	5600min
EP17	0.84	33.9	28.5	966	11.8	2600	2500			8000min
EP20	0.51	78.0	39.8	3120	28	4600	4000			13500min



POT-TYPE CORES

Ordering Code :

FP4

Material

POT14x8

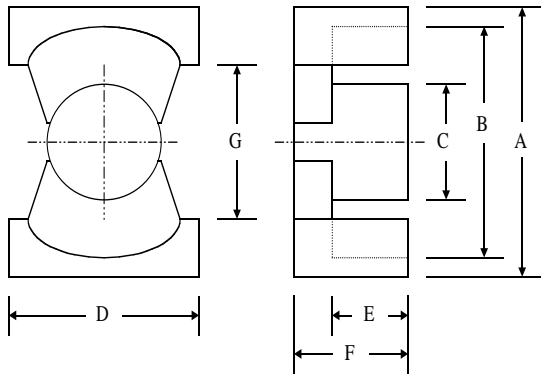
Core Size

POT-TYPE CORES

Cores	Dimensions (mm)							
	A	B	D	E	F	J	K	D1
POT3x2	3.9+/-0.1	1.0+/-0.1	1.5max	2.9min	0.5min		0.8+/-0.1	
POT5x6	4.6+/-0.2	2.1+/-0.1	2.2max	3.7min	1.3min		1.3+/-0.1	
POT11x7	11.4+/-0.2	3.3+/-0.1	4.7max	8.9min	2.2min	7.5+/-0.5	1.8+/-0.3	2.1+/-0.1
POT14x8	14.0+/-0.3	4.2+/-0.1	6.0max	11.6min	2.8min	9.5+/-0.6	3.3+/-0.6	3.1+/-0.1
POT18x11	17.9+/-0.3	5.3+/-0.1	7.4+/-0.2	15.3+/-0.3	3.8+/-0.1	11.6+/-0.3	3.2+/-0.3	3.1+/-0.1

POT-TYPE CORES

Cores	Effective Parameters					AL(nH/N ²) +/-30%				
	C1(mm ³)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	FP3	FP4	F05	F07	F10
POT3x2	2.00	2.1	4.2	9	1.1					
POT5x6	2.49	4.1	10.2	41	2.1					
POT11x7	0.94	16.3	15.4	251	4.5					5700min
POT14x8	0.79	25.0	19.8	495	3.7		2000	3500		6860min
POT18x11	0.60	43.3	25.8	1120	7.8		2850	7550		8820min



PQ-TYPE CORES

Ordering Code :

FP4
Material

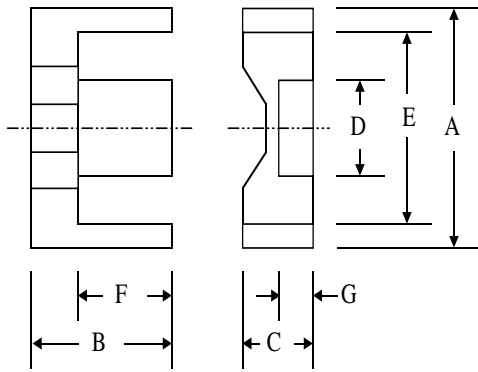
PQ20x20
Core Size

PQ-TYPE CORES

Cores	Dimensions (mm)						
	A	B	C	D	E	F	G
PQ20x16	20.5+/-0.4	18.0+/-0.4	8.8+0/-0.2	14.0+/-0.4	5.0+/-0.3	8.0+0/-0.2	12.0min
PQ20x20	20.5+/-0.4	18.0+/-0.4	8.8+0/-0.2	14.0+/-0.4	7.0+/-0.3	10.2+0/-0.2	12.0min
PQ26x20	26.5+/-0.5	22.5+/-0.5	12.0+0/-0.2	19.0+/-0.5	5.8+/-0.3	10.0+0/-0.3	15.5min
PQ26x25	26.5+/-0.5	22.5+/-0.5	12.0+0/-0.2	19.0+/-0.5	8.1+/-0.3	12.5+0/-0.3	15.5min
PQ32x20	32.0+/-0.5	27.5+/-0.5	13.5+0/-0.3	22.0+/-0.5	5.8+/-0.3	10.4+0/-0.3	19.0min
PQ32x30	32.0+/-0.5	27.5+/-0.5	13.5+0/-0.3	22.0+/-0.5	10.5+/-0.3	15.3+0/-0.3	19.0min
PQ35x35	35.1+/-0.6	32.0+/-0.5	14.4+0/-0.3	26.0+/-0.5	12.5+/-0.3	17.5+0/-0.3	23.5min
PQ40x40	40.0+/-0.9	37.0+/-0.6	14.9+0/-0.3	28.0+/-0.6	14.8+/-0.3	20.0+0/-0.3	28.0min

PQ-TYPE CORES

Cores	Effective Parameters					AL(nH/N ²) +/-25%				
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ²)	Wt (g)	FP3	FP4	F05	F07	F10
PQ20x16	0.61	62	37.4	2310	13	3880	3430			
PQ20x20	0.74	62	45.4	2790	15	3310	2920			
PQ26x20	0.39	119	46.3	5490	31	6170	5510			
PQ26x25	0.47	118	55.5	6530	36	5250	4670			
PQ32x20	0.33	170	55.5	9420	42	7310	6730			
PQ32x30	0.46	161	74.6	12000	55	5140	4900			
PQ35x35	0.45	196	87.9	17300	73	4860	4860			
PQ40x40	0.51	201	102	20500	95	4300	4300			



EFD-TYPE CORES

Ordering Code :

FP4

Material

EFD20

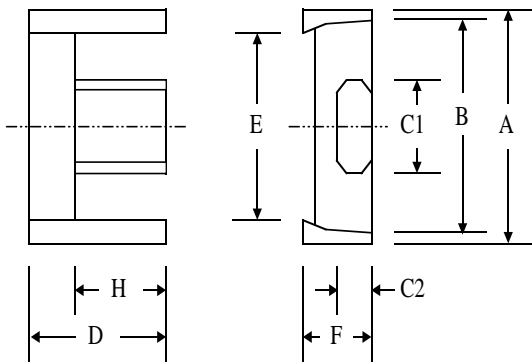
Core Size

EFD-TYPE CORES

Cores	Dimensions (mm)						
	A	B	C	D	E	F	G
EFD13	13.2+/-0.4	6.9+/-0.2	2.9+0/-0.2	5.3+0/-0.2	9.4+/-0.3	4.8+0/-0.2	1.4+0/-0.1
EFD14	14.0+/-0.4	8.7+/-0.2	3.4+0/-0.2	5.6+0/-0.2	10.4+/-0.3	6.5+0/-0.2	1.6+0/-0.1
EFD15	15.0+/-0.4	7.5+/-0.2	4.7+0/-0.2	5.3+/-0.2	11.0+/-0.4	5.5+0/-0.3	2.4+0/-0.1
EFD18	18.0+/-0.3	11.2+/-0.2	2.0+0/-0.1	9.0+/-0.2	13.2+/-0.2	7.9+0/-0.2	0.9+0/-0.1
EFD20	20.0+/-0.6	10.0+/-0.3	6.7+0/-0.3	8.9+/-0.2	15.4+/-0.5	7.9+0/-0.3	3.6+0/-0.2
EFD25	25.0+/-0.7	12.5+/-0.3	9.1+0/-0.3	11.4+/-0.2	18.7+/-0.6	9.3+0/-0.3	5.2+0/-0.3
EFD30	30.0+/-0.8	15.0+/-0.3	9.1+0/-0.3	14.6+/-0.3	22.4+/-0.8	11.2+0/-0.3	4.9+0/-0.3

EFD-TYPE CORES

Cores	Effective Parameters					AL(nH/N ²) +/-25%				
	C1(mm ³)	Ae(mm ²)	Le(mm)	Ve(mm ³)	Wt (g)	FP3	FP4	F05	F07	F10
EFD13	2.41	12	29	348	2.2		600			
EFD14	2.78	13	35	455	2.2		600			
EFD15	2.27	15	34	510	6.8		780			
EFD18	3.14	11	33	363	2.4		500			
EFD20	1.52	31	47	1460	7.4		1200			
EFD25	1.00	58	57	3300	16.6	2000	1800			
EFD30	0.99	69	68	4700	24.0	2050	2050			



EPC-TYPE CORES

Ordering Code :

FP4
Material

EPC19
Core Size

EPC-TYPE CORES

Cores	Dimensions (mm)							
	A	B	C1	C2	D	E	F	H
EPC10	10.2+/-0.2	7.6min	5.0+/-0.1	1.9+/-0.1	4.1+/-0.1	5.3min	3.4+/-0.1	2.7+/-0.1
EPC13	13.3+/-0.3	10.5min	5.6+/-0.2	2.1+/-0.1	6.6+/-0.2	8.3min	4.6+/-0.2	4.5+/-0.2
EPC17	17.6+/-0.4	14.3min	7.7+/-0.2	2.8+/-0.1	8.6+/-0.2	11.5min	6.0+/-0.2	6.1+/-0.2
EPC19	19.1+/-0.5	15.8min	8.5+/-0.2	2.5+/-0.1	9.8+/-0.2	13.1min	6.0+/-0.2	7.3+/-0.2
EPC25	25.1+/-0.5	20.6min	11.5+/-0.2	4.0+/-0.1	12.5+/-0.2	17.1min	8.0+/-0.2	9.0+/-0.3
EPC27	27.1+/-0.5	21.6min	13.0+/-0.3	4.0+/-0.1	16.0+/-0.2	18.5min	8.0+/-0.2	12.0+/-0.3
EPC30	30.1+/-0.5	23.6min	15.0+/-0.3	4.0+/-0.1	17.5+/-0.2	20.0min	8.0+/-0.2	13.0+/-0.3

EPC-TYPE CORES

Cores	Effective Parameters					AL(nH/N ²) +/-25%				
	C1(mm ⁻¹)	Ae(mm ²)	Le(mm)	Ve(mm ²)	Wt (g)	FP3	FP4	F05	F07	F10
EPC10	1.89	9.4	17.8	167	1.1		1000			
EPC13	2.46	12.5	30.6	382	2.1		870			
EPC17	1.76	22.9	40.2	917	4.5		1150			
EPC19	2.03	22.7	46.1	1047	5.3		940			
EPC25	1.28	46.4	59.2	2748	13		1560			
EPC27	1.34	54.6	73.1	3995	18		1540			
EPC30	1.32	61.0	81.6	5035	23		1570			