For Power Supply and Signal Transformer / EFT Series

.Features

1. High magnetic permeability.
2. Excellent saturation flux density.
3. Low power loss.

.Application

1. Common mode choke for signal line.
2. Filter for video and audio signals.
3. Power supplies,switching circuits.

.Product Identification

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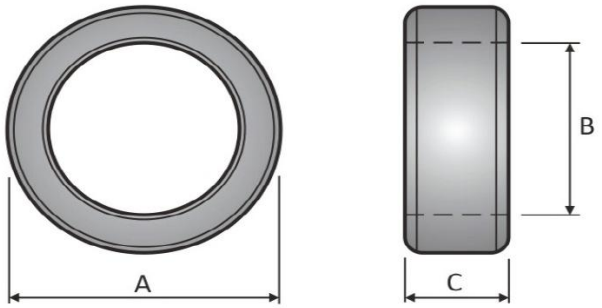
1 2 3 4 5

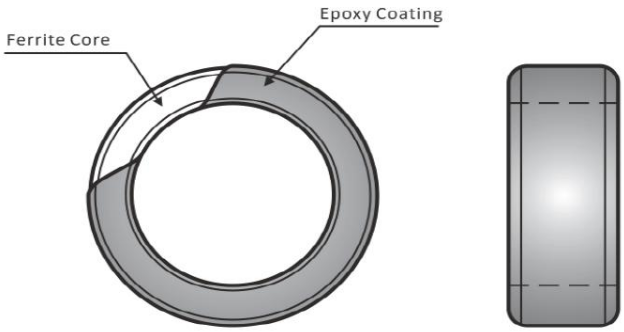
Product Series			Outer Diameter		Inner Diameter		Height	
EFT	Material	5000 μi	060	6 mm	030	3 mm	030	3 mm
			080	8 mm	040	4 mm	040	3 mm
			080	8 mm	050	5 mm	030	3 mm

Coating	
B	Black
C	Gray
G	Green

.Shapes And Dimensions



.Construction



.Material List

No.	Location	Material
1	Ferrite Body	Fe2O3
		MnO
		ZnO
2	Epoxy Coating	Epoxy

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.Dimensions & Characteristics

Unit : mm

Part No.	A (mm)	B (mm)	C (mm)	AL (nH / N^2)	Tolerance
EFT060030030	6.0 ± 0.3	3.0 ± 0.3	3.0 ± 0.2	2250	30%
EFT080040040	8.0 ± 0.3	4.0 ± 0.3	4.0 ± 0.3	2940	30%
EFT080050030	8.0 ± 0.3	5.0 ± 0.3	3.0 ± 0.2	1500	30%
EFT090050030	9.0 ± 0.3	5.0 ± 0.3	3.0 ± 0.2	1900	30%
EFT100050050	10.0 ± 0.3	5.0 ± 0.3	5.0 ± 0.3	3600	30%
EFT100060028	10.0 ± 0.3	6.0 ± 0.3	2.8 ± 0.2	1550	30%
EFT100060035	10.0 ± 0.3	6.0 ± 0.3	3.5 ± 0.2	1930	30%
EFT100060040	10.0 ± 0.3	6.0 ± 0.3	4.0 ± 0.2	2200	30%
EFT100060050	10.0 ± 0.3	6.0 ± 0.3	5.0 ± 0.3	2800	30%
EFT120060040	12.0 ± 0.4	6.0 ± 0.3	4.0 ± 0.3	2900	30%
EFT127079063	12.7 ± 0.4	7.92 ± 0.3	6.35 ± 0.3	3300	30%
EFT130060070	13.0 ± 0.4	6.0 ± 0.3	7.0 ± 0.3	5700	30%
EFT130070050	13.0 ± 0.4	7.0 ± 0.3	5.0 ± 0.3	3300	30%
EFT140080070	14.0 ± 0.4	8.0 ± 0.3	7.0 ± 0.3	3900	30%
EFT140090050	14.0 ± 0.4	9.0 ± 0.3	5.0 ± 0.3	2400	30%
EFT146105037	14.6 ± 0.4	10.5 ± 0.3	3.7 ± 0.3	1330	30%
EFT160080050	16.0 ± 0.4	8.0 ± 0.3	5.0 ± 0.3	3800	30%
EFT160090050	16.0 ± 0.4	9.0 ± 0.3	5.0 ± 0.3	2800	30%
EFT160100070	16.0 ± 0.4	10.0 ± 0.3	7.0 ± 0.3	3230	30%
EFT160120080	16.0 ± 0.4	12.0 ± 0.3	8.0 ± 0.3	2500	30%
EFT180100063	18.0 ± 0.4	10.0 ± 0.3	6.35 ± 0.3	4100	30%
EFT180100100	18.0 ± 0.4	10.0 ± 0.3	10.0 ± 0.3	6500	30%
EFT190110100	19.0 ± 0.4	11.0 ± 0.3	10.0 ± 0.3	5860	30%
EFT190130110	19.0 ± 0.4	13.0 ± 0.3	11.0 ± 0.3	4550	30%
EFT200100070	20.0 ± 0.4	10.0 ± 0.3	7.0 ± 0.3	5150	30%
EFT200100100	20.0 ± 0.4	10.0 ± 0.3	10.0 ± 0.3	6930	30%
EFT200120100	20.0 ± 0.4	12.0 ± 0.4	10.0 ± 0.3	5500	30%
EFT220140080	22.0 ± 0.4	14.0 ± 0.4	8.0 ± 0.3	4000	30%
EFT220140100	22.0 ± 0.4	14.0 ± 0.4	10.0 ± 0.3	5000	30%
EFT220140127	22.0 ± 0.4	14.0 ± 0.4	12.7 ± 0.3	7800	30%
EFT250150100	25.0 ± 0.4	15.0 ± 0.4	10.0 ± 0.3	5400	30%
EFT250150120	25.0 ± 0.4	15.0 ± 0.4	12.0 ± 0.3	6700	30%
EFT250150130	25.0 ± 0.4	15.0 ± 0.4	13.0 ± 0.3	7300	30%

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Part No.	A (mm)	B (mm)	C (mm)	AL (nH / N^2)	Tolerance
EFT260145200	26.0 ± 0.4	14.5 ± 0.4	20.0 ± 0.4	11700	30%
EFT280124076	28.0 ± 0.4	12.4 ± 0.3	7.6 ± 0.3	5700	30%
EFT280160160	28.0 ± 0.4	16.0 ± 0.4	16.0 ± 0.3	8950	30%
EFT280180130	28.0 ± 0.4	18.0 ± 0.4	13.0 ± 0.3	5500	30%
EFT290180150	29.0 ± 0.5	18.0 ± 0.4	15.0 ± 0.3	7700	30%
EFT290190150	29.0 ± 0.5	19.0 ± 0.4	15.0 ± 0.3	6800	30%
EFT310180140	31.0 ± 0.5	18.0 ± 0.5	14.0 ± 0.4	8600	30%
EFT310190130	31.0 ± 0.5	19.0 ± 0.5	13.0 ± 0.4	7000	30%
EFT310190150	31.0 ± 0.5	19.0 ± 0.5	15.0 ± 0.4	7800	30%
EFT310200150	31.0 ± 0.5	20.0 ± 0.4	15.0 ± 0.4	5900	30%
EFT340218210	34.0 ± 0.6	21.8 ± 0.6	21.4 ± 0.4	10100	30%
EFT360230150	36.0 ± 0.5	23.0 ± 0.5	15.0 ± 0.4	7400	30%
EFT370230150	37.0 ± 0.5	23.0 ± 0.5	15.0 ± 0.4	7700	30%
EFT380190130	38.0 ± 0.5	19.0 ± 0.5	13.0 ± 0.4	9500	30%
EFT380190150	38.0 ± 0.5	19.0 ± 0.5	15.0 ± 0.4	11000	30%
EFT380190210	38.0 ± 0.5	19.0 ± 0.5	21.0 ± 0.4	15400	30%
EFT380205150	38.0 ± 0.5	20.5 ± 0.5	15.0 ± 0.4	9900	30%
EFT380220150	38.0 ± 0.5	22.0 ± 0.5	15.0 ± 0.4	8800	30%
EFT380250150	38.0 ± 0.5	25.0 ± 0.5	15.0 ± 0.4	6800	30%
EFT400230200	40.0 ± 0.8	23.0 ± 0.6	20.0 ± 0.5	11800	30%
EFT400250200	40.0 ± 0.8	25.0 ± 0.6	20.0 ± 0.5	10150	30%
EFT420260180	42.0 ± 0.8	26.0 ± 0.6	18.0 ± 0.6	9317	30%
EFT450300150	45.0 ± 0.8	30.0 ± 0.6	15.0 ± 0.4	6600	30%
EFT470270150	47.0 ± 0.8	27.0 ± 0.6	15.0 ± 0.4	8900	30%
EFT480300100	48.0 ± 1.0	30.0 ± 0.5	10.0 ± 0.3	5070	30%
EFT480300150	48.0 ± 1.0	30.0 ± 0.5	15.0 ± 0.4	7800	30%
EFT490310150	49.0 ± 0.6	31.0 ± 0.6	15.0 ± 0.4	7430	30%
EFT490310188	49.0 ± 0.6	31.0 ± 0.6	18.8 ± 0.4	7800	30%
EFT490318188	49.0 ± 0.6	31.8 ± 0.6	18.8 ± 0.4	7800	30%
EFT490338190	49.0 ± 0.6	33.8 ± 0.6	19.0 ± 0.3	7670	30%
EFT500250200	50.0 ± 1.0	25.0 ± 0.6	20.0 ± 0.6	14666	30%
EFT510310130	51.0 ± 1.0	31.0 ± 0.8	13.0 ± 0.4	6900	30%
EFT560320180	56.0 ± 1.0	32.0 ± 1.0	18.0 ± 0.6	10800	30%

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Part No.	A (mm)	B (mm)	C (mm)	AL (nH / N^2)	Tolerance
EFT560360200	56.0 ± 1.0	36.0 ± 1.0	20.0 ± 0.6	9500	30%
EFT580400180	58.0 ± 1.5	40.0 ± 1.0	18.0 ± 0.6	7200	30%
EFT600380200	60.0 ± 1.5	38.0 ± 1.0	20.0 ± 0.6	9870	30%
EFT600400200	60.0 ± 1.5	40.0 ± 1.0	20.0 ± 0.6	8800	30%
EFT630380127	63.0 ± 1.5	38.0 ± 1.0	12.7 ± 0.5	6840	30%
EFT630380250	63.0 ± 1.5	38.0 ± 1.0	25.0 ± 0.8	15500	30%
EFT680440150	68.0 ± 1.5	44.0 ± 0.8	15.0 ± 0.5	7000	30%
EFT740400130	74.0 ± 1.5	40.0 ± 1.0	13.0 ± 0.4	8500	30%
EFT800500200	80.0 ± 1.5	50.0 ± 1.0	20.0 ± 0.8	10100	30%
EFT870540140	87.0 ± 2.0	54.0 ± 2.0	14.0 ± 0.5	7200	30%
EFT870540300	87.0 ± 2.0	54.0 ± 2.0	30.0 ± 1.0	15000	30%

Note :

Specifications which provide more details for the proper and safe use of the described product are available upon request. all specifications are subject to change without notice.

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. Material Characteristic (Power)

Characteristic	Symbol	Unit	EKT	EQT	EFT	EST	ENT
Initial Permeability (B≤10 Gauss(0.1mT) ,T=25℃)	μi		2300 ± 25%	2500 ± 25%	5000 ± 25%	7000 ± 30%	10000 ± 30%
Saturation Flux Density at H=10 Oe	Bms	Gauss (mT)	4800 (480)	4800 (480)	4300 (430)	4200 (420)	3800 (380)
Residual Flux Density	Br	Gauss (mT)	1000 (100)	1200 (120)	1100 (110)	1200 (120)	1200 (120)
Coercive Force	Hc	Oersteds	0.14	0.12	0.08	0.08	0.05
Curie Temperature	Tc	℃	>210	>210	>170	>120	>120
Optimum Frequency range tmin / fmax		MHz	–	– / 0.3	– / 0.1	– / 0.1	–
DC resistivity	ρ	Ω - CM	800	50	30	2	2
Power Loss Typical T=25℃ / F=25KHz,B=200mT T=100℃ / F=100KHz,B=200mT T=25℃	PL	mW / CM^3	520 / 460 / 450	135 / 130 / 750	–	–	–
Mass Density	d	g / CM^3	4.8 ~ 4.9	4.8 ~ 4.9	4.8 ~ 4.9	4.8 ~ 4.9	4.8 ~ 4.9
Temperature Coefficient T= +25℃ to +100℃	**α μ γ**	$x10^{-6}$	4 ~ 6	4 ~ 6	0 ~ 2	-1 ~ 1	-1 ~ 1
Disaccomodatoin factor	DF	$x10^{-6}$	–	≤ 4	≤ 3	≤ 2	–
Eddy current and residual loss constant tand / mi at 25°C at B≤10 Gauss (0.1mT) , f=10KHz	$\frac{\tan\delta}{\mu i}$	$x10^{-6}$	1	≤ 1	≤ 1.5	≤ 3	≤ 6