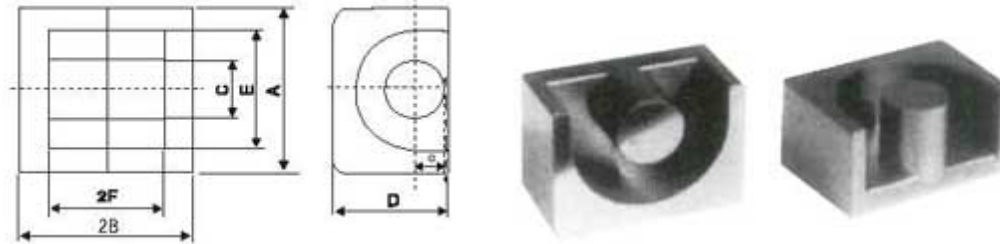




EP Core



Features of EP Cores

EP Cores are round center-post cubical shapes, which enclose the coil completely. This particular shape minimizes the effect of air gaps formed at mating surfaces in the magnetic path and provides a larger volume ratio to total space used. Shielding is excellent. Special advantages of ferrite EP Core assemblies: wide core selection like; high packaging density on PCBs; choice of linear or flat temperature characteristics; consistency and uniformity.

Application of EP Cores

High permeability EP-core can be used as EMI filter core, choke coil core, power inductor core, and for telecommunication like xDSL modem transformers. EP-core can meet low THD (Total Harmonic Distortion) over a wide temperature range and wide frequency range. Therefore EP cores are suitable for high performance transformer design for xDSL modem application.

Type	Dimensions (mm)						
	A	B	C	Dmin	E	F	G
EP7	9.2±0.2	3.7±0.2	3.4 ⁺⁰ -0.2	6.6 ⁺⁰ -0.4	7.6 ⁺⁰ -0.4	2.6±0.2	
EP7A	9.2±0.2	3.7±0.05	3.3±0.1	6.35±0.15	7.4±0.2	2.6±0.1	1.8
EP10	11.5±0.3	5.1±0.2	3.3±0.2	7.9 ⁺⁰ -0.4	9.6 ⁺⁰ -0.4	3.7±0.2	
EP10A	11.5±0.3	5.1±0.1	3.3±0.15	7.65±0.2	9.4±0.2	3.7±0.1	1.85±0.1
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	
EP13A	12.5±0.4	6.5 ⁺⁰ -0.15	4.35±0.15	8.8±0.2	10.0±0.3	4.7±0.1	2.4
EP17	18.1±0.4	8.4±0.4	5.9 ⁺⁰ -0.4	11.3 ⁺⁰ -0.6	12.0±0.4	5.7±0.2	
EP17A	18.0±0.5	8.5±0.2	5.65±0.2	11.0±0.25	12.0±0.4	5.65±0.15	3.25
EP20	24±0.5	10.7±0.2	8.8±0.3	15.0±0.4	16.5±0.4	6.9±0.2	
EP20A	24±0.5	10.7±0.1	8.75±0.25	14.95±0.35	16.5±0.4	7.15±0.15	4.4
EP30	31.0±0.5	15.0 ⁺⁰ -0.15	14.75±0.25	23.1±0.5	24.0±0.4	11.7±0.25	7.6±0.25

Type	Core parameter				weight(g/pr.)	A _i (nH/N ²)(±30%)	
	C1 (mm ⁻¹)	A _e (mm ²)	l _e (mm)	V _e (mm ³)		F7	P _c (W)
EP7	1.52	10.3	15.7	163	1.4	3640	4200
EP7A	1.52	10.3	15.7	162	1.4	3600	5200
EP10	1.7	11.3	19.2	218	2.8	3360	3860
EP10A	1.7	11.3	19.2	217	2.8	3300	4700
EP13	1.24	19.6	24.2	476	5.2	4200	5600
EP13A	1.24	19.5	24.2	472	5.1	4900	7000
EP17	0.84	33.9	28.5	966	12	/	8000
EP17A	0.84	33.9	28.5	966	12	8850	12650
EP20	0.51	78	39.8	3120	28	/	13500
EP20A	0.508	78	39.8	3120	28	19500	19350
EP30	0.351	179	11200	11200	75		

A_i : 1kHz,0.5mA,100Ts
P_c: 25kHz,200mT,100 (LP2)

100kHz,100mT,100 (LP3)

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