Section 11. Lamination Size E Cores

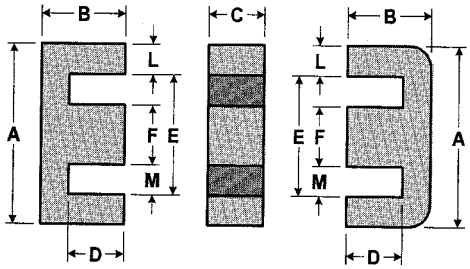


Figure 1 **Figure A** **Figure 2**

PHYSICAL DIMENSIONS

PART NO.	TYPE	FIG		A	B	C	D (min.)	E (min.)	F	L (nom.)	M (min.)
*-41203-EC	E2829	1A	in.	.500 ± .010	.224 ± .007	.125 ± .005	.156	.362	.125 ± .003	.062	.120
			mm.	(12.7)	(5.69)	(3.18)	(3.96)	(9.19)	(3.18)	(1.57)	(3.05)
*-41707-EC	E3233	2A	in.	.660 ± .015	.280 ± .007	.140 ± .005	.155	.411	.140 ± .005	.110	.143
			mm.	(16.8)	(7.11)	(3.56)	(3.94)	(10.4)	(3.56)	(2.79)	(3.63)
*-41808-EC	EI187	1A	in.	.760 ± .012	.3188 ± .007	.188 ± .006	.218	.548	.188 ± .005	.094	.183
			mm.	(19.30)	(8.1)	(4.78)	(5.54)	(13.92)	(4.78)	(2.39)	(4.65)
*-42510-EC	E2425	1A	in.	.990 ± .015	.375 ± .007	.250 ± .010	.246	.740	.240 ± .005	.119	.245
			mm.	(25.15)	(9.53)	(6.53)	(6.25)	(18.8)	(6.10)	(3.02)	(6.22)
*-43009-EC	E2627	1A	in.	1.200 ± 0.15	.5275 ± .010	.370 ± .005	.3475	.843	.370 ± .005	.169	.236
			mm.	(30.48)	(13.4)	(9.40)	(8.83)	(21.41)	(9.40)	(4.29)	(6)
*-43515-EC	EI375	2A	in.	1.360 ± .015	.557 ± .005	.368 ± .007	.380	.995	.367 ± .008	.175	.310
			mm.	(34.54)	(14.1)	(9.35)	(9.65)	(25.27)	(9.32)	(4.45)	(7.87)
*-44317-EC	EI21	2A	in.	1.609 ± .015	.650 ± .006	.493 ± .007	.410	1.115	.493 ± .007	.238	.310
			mm.	(40.87)	(16.5)	(12.52)	(10.4)	(28.32)	(12.52)	(6.05)	(7.87)
*-44721-EC	EI625	2A	in.	1.855 ± .020	.776 ± .005	.617 ± .008	.475	1.245	.617 ± .008	.297	.310
			mm.	(47.12)	(19.7)	(15.67)	(12.1)	(31.62)	(15.67)	(7.54)	(7.87)
*-45724-EC	EI75	2A	in.	2.227 ± .023	.931 ± .007	.740 ± .010	.570	1.500	.740 ± .010	.355	.370
			mm.	(56.57)	(23.6)	(18.80)	(14.5)	(38.10)	(18.80)	(9.02)	(9.40)

MAGNETIC DATA

	Ungapped A_L mH/1000 turns						Magnetic Path Length (cm)	Core Area (cm^2)	Minimum Core Area (cm^2)	Core Volume (cm^3)	Set Nom. Weight (gms)	WaAc (cm^4) (note 1)
PART NUMBER	K (min.)	R (min.)	P (min.)	F (±25%)	J (min.)	W(min.)						
*-41203-EC	310	440	480	770	1025	—	2.77	.101	.100	.279	1.3	.017
*-41707-EC	520	760	825	1300	1425	22 40	3.04	.166	.126	.505	3.0	.031
*-41808-EC	600	865	940	1500	1875	3220	4.01	.228	.228	.914	4.4	.076
*-42510-EC	920	1325	1440	2300	2775	4635	4.85	.385	.384	1.87	9.5	.162
*-43009-EC	1515	2170	2360	3780	4420	8500	6.24	.836	.807	5.22	26	.74
*-43515-EC	1390	2000	2180	3500	4360	7990	6.94	.840	.821	5.83	33	.856
*-44317-EC	—	2925	3180	5900	7350	13,720	7.75	1.52	1.49	11.8	57	1.48
*-44721-EC	—	4020	4370	8300	10,600	19,810	8.90	2.39	2.36	21.3	103	2.77
*-45724-EC	—	6070	6600	10,400	10,610	—	10.7	3.49	3.39	36.7	179	6.34

FOR PREFERRED PARTS, SEE INSIDE BACK COVER

(1) Product of printed circuit bobbin window area and core area.

HOW TO ORDER

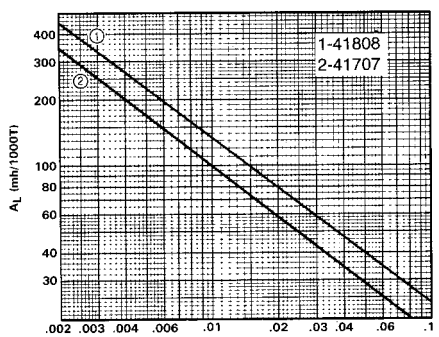
(a) Add (*) material code to part number. E.g., P-41203-EC

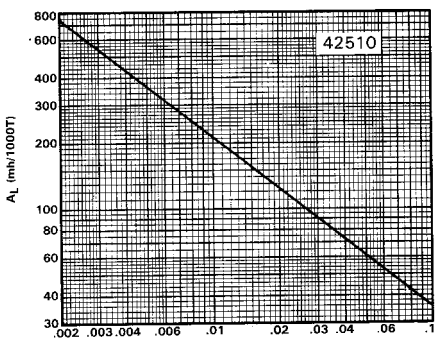
(b) Any practical gap is available. See pages 1.6 and 1.7.

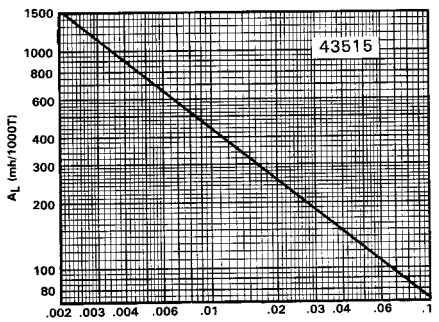
(c) Cores are sold in pieces (multiply sets × 2).
Gapped pieces are normally packed separately from ungapped pieces. If desired in sets, this must be specified.

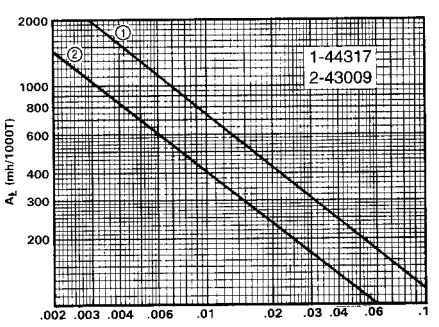
Lam E Cores

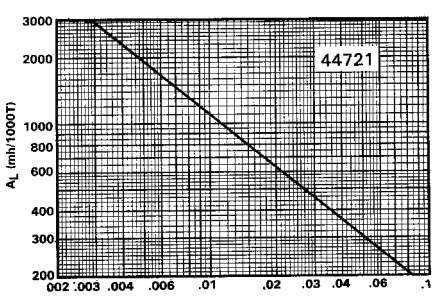
A_L vs Gap

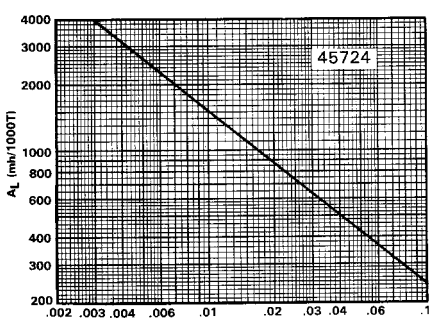












PLAIN BOBBINS

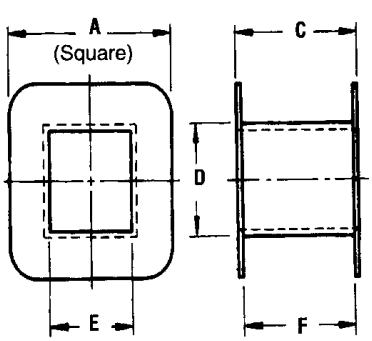


Figure 1

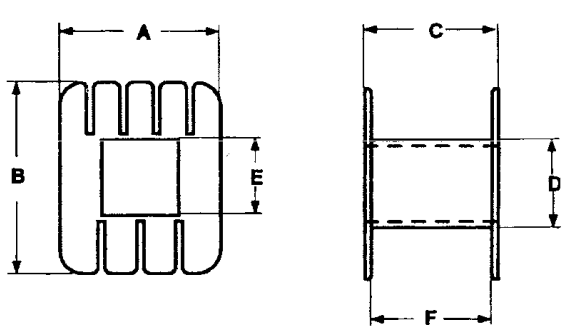


Figure 2

(UL 94 HB rated)

FOR CORE:	FIG.	TYPE	PART NUMBER	DIMENSIONS IN INCHES A MAX.	B MAX.	C MAX.	D MAX.	E MIN.	F NOM.	Nominal Winding Area in^2	Nominal Winding Area cm^2	Average Length of Turn ft.	Material
41203	1	E2829	B1203-01	.366	—	.310	.178	.130	.261	.024	.158	.089	Nylon*
41808	1	EI187	B1808-01	.545	—	.435	.255	.195	.375	.053	.342	.131	Nylon*
42510	1	E2425	B2510-01	.728	—	.486	.331	.261	.406	.079	.510	.184	Nylon*
43009	2	E2627	B3009-01	.840	.980	.690	.452	.378	.616	.130	.839	.226	Nylon*
43515	1	E375	B3515-01	.978	—	.745	.472	.390	.675	.175	1.13	.236	Nylon*
44317	1	E21	B4317-01	1.103	—	.806	.575	.505	.746	.195	1.26	.277	Nylon*
44721	1	E625	B4721-01	1.228	—	.928	.725	.635	.842	.218	1.41	.320	Nylon*
45724	1	E75	B5724-01	1.490	—	1.125	.850	.753	1.045	.332	2.14	.388	Nylon*

Lam E Cores

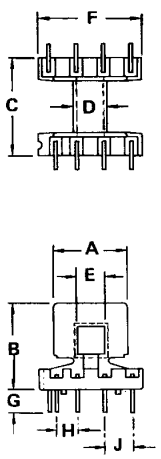


Fig. 1

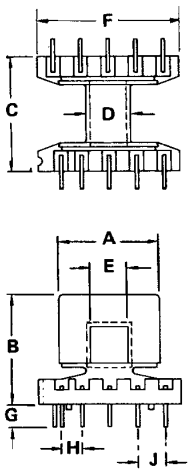


Fig. 2

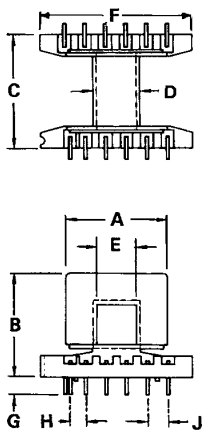


Fig. 3

Material: (PC-B4317-LI) Rynite (UL 94 V-0 rated)

(others above) Glass-filled nylon (UL 94 HB rated)

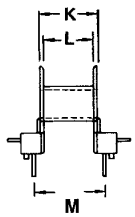


Fig. A

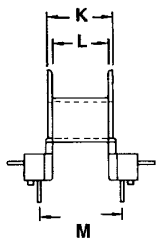
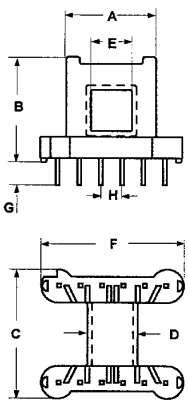


Fig. B

Terminal pins: Phosphor bronze, .025" square



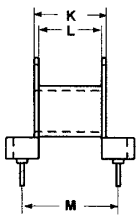
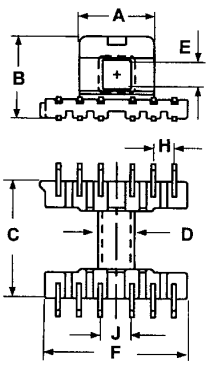


Fig. 4

Material: DAP
UL 94 V-0 rated

Terminal pins: Alloy 510, tin plated .036" square



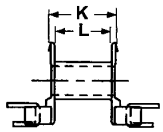


Fig. 5

Material: LCP
UL 94 V-0 rated

Terminal pins: Phosphor bronze, .02" square

FOR CORE:	PART NUMBER	FIG.	DIMENSIONS IN INCHES A MAX.	B MAX.	C MAX.	D MAX.	E MIN.	F MAX.	G MIN.	H NOM.	J NOM.	K MAX.	L NOM.	M NOM.	Nominal Winding Area in^2	Nominal Winding Area cm^2	Average Length of Turn ft.
41203	SM-B1203-LA	5	.359	.413	.554	.177	.130	.678	-	.100	.150	.312	.272	-	.025	.162	.087
41808	PC-B1808-81*	1-A	.545	.635	.685	.288	.195	.755	.165	.150	.200	.435	.367	.515	.049	.316	.133
42510	PC-B2510-T1*	2-B	.735	.802	.825	.350	.261	1.035	.165	.150	.200	.485	.404	.615	.063	.406	.178
43009	PC-B3009-LA	4	.842	1.025	1.210	.480	.380	1.335	.200	.200	-	.675	.580	.900	.111	.714	.218
43515	PC-B3515-L1	3-B	.990	1.005	1.082	.473	.381	1.475	.165	.150	.200	.732	.650	.862	.147	.948	.241
44317	PC-B4317-L1	3-B	1.105	1.135	1.150	.601	.505	1.630	.170	.200	.250	.800	.713	.950	.156	1.01	.281
44721	PC-B4721-L1	3-B	1.235	1.265	1.295	.725	.635	1.755	.175	.200	.300	.925	.830	1.10	.185	1.193	.325
45724	PC-B5724-L1‡	3-B	1.485	1.545	1.505	.847	.759	1.755	.173	.200	.300	1.115	1.030	1.30	.293	1.890	.386

*Also available in 2 sections. To order, replace "1" with "2". E.g., PC-B1808-82. ‡ This bobbin has no standoff.