

Mullard

INDUCTOR POT CORE EQUIVALENTS LIST

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Mullard Limited have been manufacturing ferrite pot cores for over 20 years and many of the early types produced are now being phased out.

Changes in marketing policy have lead to rationalisation of the product range. Assemblies are no longer sold in kits, all items are sold separately.

The development of more sophisticated materials has rendered earlier ones obsolescent. Mullard Ferroxcube A5 grade material has now been replaced by A13 grade material, which offers improved electrical performance without any mechanical changes.

The following tables, there are five in all, give the type numbers of the obsolescent cores alongside those of the recommended replacement types.

Table 1

The LA1 to LA99 series listed numerically giving the size and the replacement Mullard Vinkor or transformer core as appropriate. For accessories see Table 5.

Table 2

Complementary to Table 1. This lists the LA1 to LA99 series by size giving the turns for 1mH (∞) with the same information for the equivalent Mullard Vinkor. Please note that this is the only data available on the LA1 to LA99 range.

Table 3

This table lists numerically the LA1000 Mullard Vinkor series (pairs of cores only) in A5 material which is now obsolescent and gives the replacement type in A13 material. Two adjusters are also quoted, the first type (3 rib) for normal requirements and the second type (skirted head) for when increased stability and improved variability are required. For accessories see Table 5. All items must be ordered separately.

Table 4

The LA2000 series was originally supplied in two versions, stage two which consisted of a pair of cores and an adjuster and stage three which consisted of a pair of cores, an adjuster, a single-section bobbin and a metal housing. Stage 3 assemblies are identified by the suffix *.

The table lists numerically the LA2000 series giving the size and the replacement LA1000 series cores and adjusters.

For example

1. If 1000 off old type number LA2204 are required then it will be necessary to order the following:

LA1217	-	1000 pair of cores
LA1275	-	1000 Adjuster (or LA1428)
DT2205	-	1000 Bobbin
DT2150	-	1000 Metal Housing

or for clip/ring assembly mounting

DT2371	-	1000
DT2372	-	4000
DT2374	-	1000

2. If 1000 off LA2201 are required then it will be necessary to order

LA1217	-	1000 pair of cores
LA1275	-	1000 Adjuster (or LA1428)

Table 5

A list of accessories for all Vinkor sizes from 10mm to 45mm. The obsolete kits of rings and clips are also listed with the ring and clip shown as individual items.

Vinkors from 12mm to 25mm sizes for A13 and A10 material are current types, available for equipment production and for use in existing equipment installations. For new equipment designs using these sizes refer to the latest issue of Mullard Technical Handbook, Book 3, Part 4, RM Inductor Cores.

Reference should be made to the latest issue of the Mullard price list for status and minimum order quantities. Smaller quantities are obtainable through the Mullard Distributor Service.

Data for all types shown as equivalents and the accessories can be found in the latest issue of Mullard Technical Handbook, Book 3, Part 3, (Vinkor Inductor Cores) and Book 3, Part 2, (Magnetic Materials and Components) for FX types. Requests for information on the data handbook system and for individual data sheets should be made to:

Central Technical Services,
Mullard Limited,
New Road,
Mitcham,
Surrey, CR4 4XY.

Telephone: 01-648:3471
Telex: 22194

TABLE 1
NUMERICAL LIST OF
LA1 TO 99 (OBSOLETE) POT CORES AND
RECOMMENDED REPLACEMENTS

Old Type assembly ref.	Size	New type ref. Pairs of cores only
LA1	25mm	LA1221*
LA2	"	LA1414
LA3	"	LA1168*
LA4	35mm	LA1412*
LA5	"	LA1174*
LA6	"	LA1175
LA7	"	LA1212
LA8	"	LA1175*
LA9	"	LA1175*
LA10	"	LA1175*
LA11	45mm	LA1411
LA12	"	LA1411
LA13	"	LA1410
LA16	25mm	LA1414
LA18	60mm	No equivalent
LA19	"	"
LA20	"	"
LA21	"	"
LA22	35mm	LA1213*
LA23	"	LA1412*
LA24	"	LA1174*
LA28	"	LA1175
LA29	25mm	LA1219
LA30	"	LA1168*
LA32	14mm	2xFX2236
LA33	"	LA1157
LA34	"	LA1158*
LA35	"	LA1158
LA39	35mm	LA1412*
LA41	"	LA1212
LA42	18mm	LA1227*
LA43	"	LA1416
LA44	"	LA1162
LA45	"	LA1163*
LA46	25mm	LA1221*
LA47	"	LA1221*
LA48	"	LA1414
LA49	35mm	LA1212
LA50	25mm	LA1414
LA51	"	LA1221*
LA52	45mm	LA1411

TABLE 1 (Contd)

Old Type assembly ref.	Size	New type ref. Pairs of cores only
LA53	35mm	LA1212
LA54	"	LA1175
LA55	"	LA1174
LA56	"	LA1412*
LA58	"	LA1412*
LA60	"	LA1175
LA61	25mm	LA1221*
LA62	35mm	LA1174*
LA64	"	LA1174*
LA66	25mm	LA1414
LA67	18mm	2xFX2238
LA69	35mm	LA1412
LA70	25mm	2xFX2240
LA74	"	LA1221*
LA75	"	LA1414
LA76	"	LA1168*
LA77	"	LA1221*
LA78	"	LA1168*
LA79	"	LA1169*
LA80	"	LA1414*
LA85	35mm	LA1412*
LA86	"	LA1174*
LA87	"	LA1175
LA88	"	LA1212
LA91	45mm	LA1411
LA92	"	LA1411
LA93	"	LA1410

*Use of the standard adjuster recommended for this type will enable the inductance to be adjusted nearer to that of the equivalent "old" type.

The mechanical construction of the "old" and "new" type pot cores is different so that certain mechanical modifications may be necessary. See Table 5 for accessories.

TABLE 2
SIZE-NUMERICAL LIST OF LA1 TO 99 POT CORES
SHOWING TURNS FOR 1mH FOR OLD TYPES AND NEW TYPES
WITHOUT ADJUSTER

POT CORE	OLD TYPE		NEW TYPE	
	Size	Type number	Turns for 1mH	Type No. without adjuster
45mm	LA11	46 max	LA1411	40.60
	LA12	40 nom	LA1411	40.60
	LA13	36 max	LA1410	31.50
	LA52	46 max	LA1411	40.60
	LA91	46 max	LA1411	40.60
	LA92	40 nom	LA1411	40.60
	LA93	36 max	LA1410	31.50
35mm	LA4	54 max	LA1412	57.40
	LA5	70 max	LA1174	70.80
	LA6	92 max	LA1175	89.93
	LA7	39 max	LA1212	36.20
	LA8	79 min	LA1175	89.93
	LA9	75 min	LA1175	89.93
	LA10	71 min	LA1175	89.93
	LA22	40 min	LA1213	45.70
	LA23	53 min	LA1412	57.40
	LA24	62 min	LA1174	70.80
	LA28	127 min	LA1175	89.93
	LA39	54 nom	LA1412	57.40
	LA41	39 nom	LA1212	36.20
	LA49	39 nom	LA1212	36.20
	LA53	39 nom	LA1212	36.20
	LA54	92 max	LA1175	89.93
	LA55	70 nom	LA1174	70.80
	LA56	54 nom	LA1412	57.40
	LA58	54 max	LA1412	57.40
	LA60	92 max	LA1175	89.93
	LA62	70 max	LA1174	70.80
	LA64	70 max	LA1174	70.80
	LA69	54 max	LA1412	57.40
	LA85	54 max	LA1412	57.40
	LA86	70 max	LA1174	70.80
	LA87	92 max	LA1175	89.93
	LA88	39 max	LA1212	36.20
	25mm	LA1	53 max	LA1221
LA2		72 max	LA1414	70.00
LA3		87 max	LA1168	90.20
LA16		75 approx	LA1414	70.00
LA29		36 min	LA1219	35.00
LA30		87 max	LA1168	90.20
LA46		53 max	LA1221	56.70
LA47		53 max	LA1221	56.70
LA48		72 max	LA1414	70.00
LA50		72 max	LA1414	70.00

TABLE 2 (Contd)

POT CORE	OLD TYPE		NEW TYPE	
Size	Type number	Turns for 1mH	Type No. without adjuster	Nominal turns for 1mH
25mm	LA51	53 max	LA1221	56.70
	LA61	53 max	LA1221	56.70
	LA66	72 max	LA1414	70.00
	LA70	-	2xFX2240	15.49 max
	LA74	53 max	LA1221	56.70
	LA75	72 max	LA1414	70.00
	LA76	87 max	LA1168	90.20
	LA77	53 max	LA1221	56.70
	LA78	80 nom	LA1168	90.20
	LA79	98 nom	LA1169	115.0
	LA80	60 nom	LA1414	70.00
18mm	LA42	63 nom	LA1227	70.00
	LA43	96 nom	LA1416	87.20
	LA44	113 nom	LA1162	111.0
	LA45	142 nom	LA1163	145.8
	LA67	-	2xFX2238	19.53 max
	14mm	LA32	-	2xFX2236
LA33		106 nom	LA1157	98.40
LA34		122 nom	LA1158	126.0
LA35		135 nom	LA1158	126.0
60mm	LA18	53 nom)	No equivalents	
	LA19	45 nom)		
	LA20	33 nom)		
	LA21	31 nom)		

TABLE 3

NUMERICAL LIST A5 MATERIAL TO A13 MATERIAL VINKORS

Obsoloescent Cores	REPLACEMENT			
	Size	Pair of Cores	Adjuster (3 ribs)	Adjuster (skirted head)
LA1103	18mm	LA1226	LA1274	LA1502
LA1104	"	LA1227	LA1274	LA1502
LA1105	"	LA1416	LA1339	LA1503
LA1113	25mm	LA1220	LA1275	LA1428
LA1114	"	LA1221	LA1275	LA1428
LA1115	"	LA1414	LA1340	LA1432
LA1116	35mm	LA1212	LA1362	-
LA1117	"	LA1213	LA1275	LA1428
LA1118	"	LA1412	LA1275	LA1428
LA1134	14mm	LA1230	LA1273	LA1505
LA1135	"	LA1417	LA1338	LA1506
LA1138	21mm	LA1223	LA1274	LA1502
LA1139	"	LA1224	LA1274	LA1502
LA1140	"	LA1415	LA1339	LA1503
LA1141	30mm	LA1216	LA1275	LA1428
LA1142	"	LA1217	LA1275	LA1428
LA1143	"	LA1413	LA1275	LA1428
LA1144	45mm	LA1410	LA1362	-
LA1145	"	LA1411	LA1362	-
LA1191	14mm	LA1229	LA1273	LA1505
LA1193	18mm	LA1225	LA1274	LA1502
LA1195	21mm	LA1222	LA1274	LA1502
LA1196	25mm	LA1219	LA1275	LA1428
LA1198	30mm	LA1215	LA1275	LA1428
LA1200	35mm	LA1211	LA1362	-
LA1201	45mm	LA1409	LA1362	-
LA1288	12mm	LA1418	LA1383	-
LA1289	"	LA1419	LA1383	-
LA1290	"	LA1420	LA1383	-
LA1291	10mm	LA1421	LA1383	-
LA1292	"	LA1422	LA1383	-
LA1293	"	LA1423	LA1383	-

TABLE 4

NUMERICAL LIST LA2000 SERIES OBSOLESCECENT CORES
TO LA1000 REPLACEMENT SERIES

Obsolescent Cores	REPLACEMENT			
	Size	Pair of Cores	Adjuster (3 ribs)	Adjuster (skirted head)
LA2000	45mm	LA1410	LA1362	-
LA2001	"	LA1411	LA1362	-
LA2002 +	"	LA1410	LA1362	-
LA2003 +	"	LA1411	LA1362	-
LA2004	"	LA1409	LA1362	-
LA2005 +	"	LA1409	LA1362	-
LA2032	"	LA1409	LA1362	-
LA2033 +	"	LA1409	LA1362	-
LA2034	"	LA1410	LA1362	-
LA2035 +	"	LA1410	LA1362	-
LA2036	"	LA1411	LA1362	-
LA2037 +	"	LA1411	LA1362	-
LA2100	35mm	LA1212	LA1362	-
LA2101	"	LA1213	LA1275	LA1428
LA2102	"	LA1412	LA1275	LA1428
LA2103 +	"	LA1212	LA1362	-
LA2104 +	"	LA1213	LA1275	LA1428
LA2105 +	"	LA1412	LA1275	LA1428
LA2106	"	LA1173	LA1275	LA1428
LA2107	"	LA1174	LA1340	LA1432
LA2108	"	LA1175	LA1340	LA1432
LA2109 +	"	LA1173	LA1275	LA1428
LA2110 +	"	LA1174	LA1340	LA1432
LA2111 +	"	LA1175	LA1340	LA1432
LA2116	"	LA1211	LA1362	-
LA2117 +	"	LA1211	LA1362	-
LA2130	"	LA1210	LA1362	-
LA2131 +	"	LA1210	LA1362	-
LA2132	"	LA1211	LA1362	-
LA2133 +	"	LA1211	LA1362	-
LA2134	"	LA1212	LA1362	-
LA2135 +	"	LA1212	LA1362	-
LA2136	"	LA1213	LA1275	LA1428
LA2137 +	"	LA1213	LA1275	LA1428
LA2138	"	LA1412	LA1275	LA1428
LA2200	30mm	LA1216	LA1275	LA1428
LA2201	"	LA1217	LA1275	LA1428
LA2202	"	LA1413	LA1275	LA1428
LA2203 +	"	LA1216	LA1275	LA1428
LA2204 +	"	LA1217	LA1275	LA1428

8. + See note at end of Table 4.

TABLE 4 (Contd)

Obsolescent Cores	REPLACEMENT			
	Size	Pair of Cores	Adjuster (3 ribs)	Adjuster (skirted head)
LA2205+	30mm	LA1413	LA1275	LA1428
LA2206	"	LA1170	LA1275	LA1428
LA2207	"	LA1171	LA1340	LA1432
LA2208	"	LA1172	LA1340	LA1432
LA2209+	"	LA1170	LA1275	LA1428
LA2210+	"	LA1171	LA1340	LA1432
LA2211+	"	LA1172	LA1340	LA2432
LA2216	"	LA1215	LA1275	LA1428
LA2217+	"	LA1215	LA1275	LA1428
LA2230	"	LA1214	LA1275	LA1428
LA2231+	"	LA1214	LA1275	LA1428
LA2232	"	LA1215	LA1275	LA1428
LA2233+	"	LA1215	LA1275	LA1428
LA2234	"	LA1216	LA1275	LA1428
LA2235+	"	LA1216	LA1275	LA1428
LA2236	"	LA1217	LA1275	LA1428
LA2237+	"	LA1217	LA1275	LA1428
LA2238	"	LA1413	LA1275	LA1428
LA2300	25mm	LA1220	LA1275	LA1428
LA2301	"	LA1221	LA1275	LA1428
LA2302	"	LA1414	LA1340	LA1432
LA2303+	"	LA1220	LA1275	LA1428
LA2304+	"	LA1221	LA1275	LA1428
LA2305+	"	LA1414	LA1340	LA1432
LA2306	"	LA1167	LA1340	LA1432
LA2307	"	LA1168	LA1340	LA1432
LA2308	"	LA1169	LA1340	LA1432
LA2309+	"	LA1167	LA1340	LA1432
LA2310+	"	LA1168	LA1340	LA1432
LA2311+	"	LA1169	LA1340	LA1432
LA2316	"	LA1219	LA1275	LA1428
LA2317+	"	LA1219	LA1275	LA1428
LA2330	"	LA1218	LA1275	LA1428
LA2331+	"	LA1218	LA1275	LA1428
LA2332	"	LA1219	LA1275	LA1428
LA2333+	"	LA1219	LA1275	LA1428
LA2334	"	LA1220	LA1275	LA1428
LA2335+	"	LA1220	LA1275	LA1428
LA2336	"	LA1221	LA1275	LA1428
LA2337+	"	LA1221	LA1275	LA1428
LA2338	"	LA1414	LA1340	LA1432

+ See note at end of Table 4.

TABLE 4 (Contd)

Obsolescent Cores	REPLACEMENT			
	Size	Pair of Cores	Adjuster (3 ribs)	Adjuster (skirted head)
LA2400	21mm	LA1223	LA 1274	LA1502
LA2401	"	LA1224	LA 1274	LA1502
LA2402	"	LA1415	LA1339	LA1503
LA2403 +	"	LA1223	LA 1274	LA1502
LA2404 +	"	LA1224	LA 1274	LA1502
LA2405 +	"	LA1415	LA1339	LA1503
LA2406	"	LA1164	LA1339	LA1503
LA2407	"	LA1165	LA1339	LA1503
LA2408	"	LA1166	LA1339	LA1503
LA2409 +	"	LA1164	LA1339	LA1503
LA2410 +	"	LA1165	LA1339	LA1503
LA2411 +	"	LA1166	LA1339	LA1503
LA2416	"	LA1222	LA 1274	LA1502
LA2417 +	"	LA1222	LA 1274	LA1502
LA2432	"	LA1222	LA 1274	LA1502
LA2433 +	"	LA1222	LA 1274	LA1502
LA2434	"	LA1223	LA 1274	LA1502
LA2435 +	"	LA1223	LA 1274	LA1502
LA2436	"	LA1224	LA 1274	LA1502
LA2437 +	"	LA1224	LA 1274	LA1502
LA2438	"	LA1415	LA1339	LA1503
LA2500	18mm	LA1226	LA 1274	LA1502
LA2501	"	LA1227	LA 1274	LA1502
LA2502	"	LA1416	LA1339	LA1503
LA2503 +	"	LA1226	LA 1274	LA1502
LA2504 +	"	LA1227	LA 1274	LA1502
LA2505 +	"	LA1416	LA1339	LA1503
LA2506	"	LA1161	LA1339	LA1503
LA2507	"	LA1162	LA1339	LA1503
LA2508	"	LA1163	LA1339	LA1503
LA2509 +	"	LA1161	LA1339	LA1503
LA2510 +	"	LA1162	LA1339	LA1503
LA2511 +	"	LA1163	LA1339	LA1503
LA2517	"	LA1225	LA 1274	LA1502
LA2518 +	"	LA1225	LA 1274	LA1502
LA2532	"	LA1225	LA 1274	LA1502
LA2533 +	"	LA1225	LA 1274	LA1502
LA2534	"	LA1226	LA 1274	LA1502
LA2535 +	"	LA1226	LA 1274	LA1502
LA2536	"	LA1227	LA 1274	LA1502
LA2537 +	"	LA1227	LA 1274	LA1502
LA2538	"	LA1416	LA1339	LA1503

TABLE 4 (Contd)

Obsolescent Cores	REPLACEMENT			
	Size	Pair of Cores	Adjuster (3 ribs)	Adjuster (skirted head)
LA2550	18mm	LA1276	LA1300	LA1525
LA2551 +	"	LA1276	LA1300	LA1525
LA2552	"	LA1277	LA1339	LA1503
LA2553 +	"	LA1277	LA1300	LA1525
LA2554	"	LA1278	LA1339	LA1503
LA2555 +	"	LA1278	LA1300	LA1525
LA2560	"	LA1372	LA1300	LA1525
LA2561	"	LA1373	LA1300	LA1525
LA2562	"	LA1374	LA1300	LA1525
LA2700	14mm	LA1230	LA1273	LA1505
LA2701	"	LA1417	LA1338	LA1506
LA2702 +	"	LA1230	LA1273	LA1505
LA2703 +	"	LA1417	LA1338	LA1506
LA2704	"	LA1157	LA1338	LA1506
LA2705	"	LA1158	LA1338	LA1506
LA2706 +	"	LA1157	LA1338	LA1506
LA2707 +	"	LA1158	LA1338	LA1506
LA2708	"	LA1229	LA1273	LA1505
LA2709 +	"	LA1229	LA1273	LA1505
LA2732	"	LA1228	LA1273	LA1505
LA2733 +	"	LA1228	LA1273	LA1505
LA2734	"	LA1229	LA1273	LA1505
LA2735 +	"	LA1229	LA1273	LA1505
LA2736	"	LA1230	LA1273	LA1505
LA2737 +	"	LA1230	LA1273	LA1505
LA2738	"	LA1417	LA1338	LA1506
LA2750	"	LA1279	LA1299	LA1526
LA2751 +	"	LA1279	LA1299	LA1526
LA2752	"	LA1280	LA1299	LA1526
LA2753 +	"	LA1280	LA1299	LA1526
LA2754	"	LA1281	LA1299	LA1526
LA2755 +	"	LA1281	LA1299	LA1526
LA2760	"	LA1375	LA1299	LA1526
LA2761	"	LA1376	LA1299	LA1526
LA2762	"	LA1377	LA1299	LA1526
LA2801	12mm	LA1418	LA1383	-
LA2802	"	LA1419	LA1383	-
LA2803	"	LA1420	LA1383	-
LA2836	"	LA1418	LA1383	-
LA2838	"	LA1419	LA1383	-

+ See note at end of Table 4.

TABLE 4 (Contd)

Obsolescent Cores	Size	REPLACEMENT		Adjuster (skirted head)
		Pair of Cores	Adjuster (3 ribs)	
LA2840	12mm	LA1420	LA1383	-
LA2850	"	LA1282	LA1384	-
LA2852	"	LA1283	LA1384	-
LA2854	"	LA1284	LA1384	-
LA2901	10mm	LA1421	LA1383	-
LA2902	"	LA1422	LA1383	-
LA2903	"	LA1423	LA1383	-
LA2936	"	LA1421	LA1383	-
LA2938	"	LA1422	LA1383	-
LA2940	"	LA1423	LA1383	-
LA2961	"	LA1378	LA1384	-
LA2962	"	LA1379	LA1384	-
LA2963	"	LA1380	LA1384	-

+ Stage 3 assemblies. Originally supplied with a single-section coil-former, adjuster and metal housing all of which are now supplied separately. For coil-formers and mountings, see Table 5.

T A B L E 5

ACCESSORIES FOR MULLARD VINKORS AND TRANSFORMER POT CORES

Vinkor Size m m	Coil Formers			Mountings			Metal Housings**		Aligning Plug
	Section 1	Section 2	Sections 3/4	Ring 1 off	Clip 4 off	Board 1 off	With leaf tag board	With printed circuit tag board	
10	DT2169 DT2309*			DT2341	DT2342	DT2344	-	-	DT2196
12	DT2170			DT2346	DT2347	DT2349			DT2197
14	DT2202 DT2311*	DT2279	-	DT2351	DT2352	DT2354	DT2145	DT2181	DT2156
18	DT2178 DT2312*	DT2281	-	DT2356	DT2357	DT2359	DT2147	DT2183	DT2158
21	DT2204	DT2282	DT2297 (3-sect)	DT2361	DT2362	DT2364	DT2148	DT2184	DT2159
25	DT2179	DT2283	DT2298 (3-sect)	DT2366	DT2367	DT2369	DT2149	DT2185	DT2160
30	DT2205	DT2284	DT2294	DT2371	DT2372	DT2374	DT2150	DT2186	DT2161
35	DT2180	DT2285	DT2295	DT2376	DT2377	DT2379	DT2151	DT2187	DT2162
45	DT2206	DT2286	DT2296				DT2152	-	DT2163

* Spaced off former for B10 Blue Range Vinkors

** Current types except DT2152

TABLE 5 (Contd)

Screwdrivers

For use on:		
Vinkor Size (mm)	Adjuster (3 ribs)	Adjuster (skirted head)
10-12	DT2168	-
14	DT2168	DT2452
18-35	DT2047	DT2410
45	DT2047	-

The rings and clips are no longer supplied in kits and the following conversion applies.

RING AND CLIP KIT CONVERSION CHART

VINKOR SIZE (mm)	OBSOLETE KIT TYPE NUMBER	PRESSURE RING 1 off required	PLAIN CLIPS 4 off required
10	DT2384	DT2341	DT2342
12	DT2389	DT2346	DT2347
14	DT2394	DT2351	DT2352
18	DT2399	DT2356	DT2357
21	DT2404	DT2361	DT2362
25	DT2409	DT2366	DT2367
30	DT2414	DT2371	DT2372
35	DT2419	DT2376	DT2377