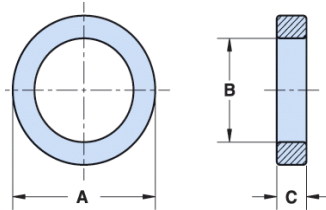


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A ring configuration provides the ultimate utilization of the intrinsic ferrite material properties. Toroidal cores are used in a wide variety of applications such as power input filters, ground-fault interrupters, common-mode filters and in pulse and broadband transformers.



- Toroids are listed by initial permeability classes and increasing dimension of the inside diameter.
- All toroidal cores are supplied burnished to break sharp edges.
- Toroids are tested for A_L values at 10 kHz.
- Toroids with an outside diameter of 9.5 mm (0.375") or smaller can be supplied Parylene C coated. The Parylene coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.038 mm (0.0015"). The ninth digit of a Parylene coated toroid part number is a "1". See reference tables for the material characteristics of Parylene C. Parylene C coating is RoHS compliant.
- Toroids with an outside diameter of 9.5 mm (0.375") or larger can be supplied with a uniform coating of thermo-set plastic coating. This coating will increase the "A" and "C" dimensions and decrease the "B" dimension a maximum of 0.5 mm (0.020"). The 9th digit of the thermo-set plastic coated toroid part number is a "2". Thermo-set plastic coating is RoHS compliant.
- Thermo-set plastic coated parts can withstand a minimum breakdown voltage of 1000 Vrms, uniformly applied across the "C" dimension of the toroid.
- The "C" dimension may be modified to suit specific applications.
- For any toroidal core requirement not listed in the catalog, please contact our customer service department for availability and pricing.
- Explanation of Part Numbers: Digits 1&2 = product class, 3&4 = material grade, 9th digit 1 = Parylene coating, 2 = thermo-set plastic coating.

Legend: Symbols & Definition

Dimensions (Top numbers are in millimeters, bottom numbers are in nominal inches.)

$\Sigma \ell/A$: Core Constant, ℓ_e : Effective Path Length, A_e : Effective Cross-Sectional Area, V_e : Effective Core Volume, A_L : Inductance Factor ($\frac{L}{N^2}$)

Low Permeability, 68 ($\mu_i=16$) material

Part Number	A	B	C	Wt. (g)	$\Sigma \ell/A(\text{cm}^{-1})$	$\ell_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5968020901	6.10 -0.25 0.235	3.12 ±0.10 0.123	1.65 -0.25 0.060	0.19	63.68	1.33	0.021	0.027	2.3 Min
5968000201	9.50 ±0.20 0.374	4.75 ±0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.073	0.15	5.3 Min
5968000301	12.70 ±0.25 0.500	7.15 ±0.20 0.281	4.90 -0.25 0.188	2.00	22.90	2.95	0.129	0.38	6.6 Min
5968001101	12.70 ±0.25 0.500	7.90 ±0.20 0.311	6.35 ±0.25 0.250	2.40	20.80	3.12	0.15	0.47	7.2 Min
5968001801	22.10 ±0.40 0.870	13.70 ±0.30 0.539	6.35 ±0.25 0.250	7.20	20.70	5.41	0.262	1.42	7.3 Min
5968021001	29.95 ±0.65 1.179	19.45 ±0.50 0.766	7.50 ±0.25 0.295	21.80	19.39	7.52	0.388	2.917	7.7 Min

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Low Permeability, 68 ($\mu_i=16$) material

Part Number	A	B	C	Wt. (g)	$\sum l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5968002701	35.55 \pm 0.75 1.400	23.00 \pm 0.55 0.906	12.70 \pm 0.50 0.500	33.00	11.20	8.90	0.78	7.00	13 Min
5968003801	61.00 \pm 1.30 2.402	35.55 \pm 0.85 1.400	12.70 \pm 0.50 0.500	106.00	9.20	14.50	1.58	22.80	16 Min

Low Permeability, 67 ($\mu_i=40$) material

Part Number	A	B	C	Wt. (g)	$\sum l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5967000101	5.95 -0.25 0.230	3.05 \pm 0.10 0.120	1.65 -0.25 0.060	0.14	63.80	1.30	0.02	0.027	6 Min
5967000201	9.50 \pm 0.20 0.375	4.75 \pm 0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.072	0.15	18 +35%, -25%
5967000301	12.70 \pm 0.25 0.500	7.15 \pm 0.20 0.281	4.90 -0.25 0.188	2.00	22.90	2.95	0.129	0.38	22 +35%, -25%
5967001101	12.70 \pm 0.25 0.500	7.90 \pm 0.20 0.312	6.35 \pm 0.25 0.250	2.40	20.80	3.12	0.15	0.47	24 +35%, -25%
5967001901	12.70 \pm 0.25 0.500	7.90 \pm 0.20 0.312	12.70 \pm 0.35 0.500	4.70	10.40	3.12	0.299	0.93	48 +35%, -25%
5967000601	21.00 \pm 0.35 0.825	13.20 \pm 0.30 0.520	6.35 \pm 0.25 0.250	6.40	21.30	5.20	0.243	1.26	24 +35%, -25%
5967001801	22.10 \pm 0.40 0.870	13.70 \pm 0.30 0.540	6.35 \pm 0.25 0.250	7.20	20.70	5.40	0.262	1.42	24 +35%, -25%
5967001001	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	7.50 \pm 0.25 0.295	13.00	19.80	7.30	0.37	2.70	25 +35%, -25%
5967001201	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	13.85 \pm 0.30 0.545	26.00	10.70	7.30	0.68	5.00	47 +35%, -25%
5967001701	31.75 \pm 0.75 1.250	19.05 \pm 0.50 0.750	9.50 \pm 0.30 0.375	23.00	12.90	7.60	0.59	4.50	39 +35%, -25%
5967002701	35.55 \pm 0.75 1.400	23.00 \pm 0.55 0.900	12.70 \pm 0.50 0.500	33.00	11.20	8.90	0.79	7.00	45 +35%, -25%
5967003821	62.80 Max 2.472 Max	34.20 Min 1.346 Min	13.70 Max 0.539 Max	106.00	9.20	14.50	1.58	22.80	55 +35%, -25%
5967003801	61.00 \pm 1.30 2.400	35.55 \pm 0.85 1.400	12.70 \pm 0.50 0.500	106.00	9.20	14.50	1.58	22.80	55 +35%, -25%

Low Permeability, 61 ($\mu_i=125$) material

Part Number	A	B	C	Wt. (g)	$\sum l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5961000801	3.95 \pm 0.15 0.155	2.15 +0.15 0.088	1.40 -0.25 0.050	0.05	87.60	0.92	0.011	0.0097	15 Min
5961000811	4.14 Max 0.162 Max	2.11 Min 0.084 Min	1.44 Max 0.056 Max	0.05	87.60	0.92	0.011	0.0097	15 Min
5961000101	5.95 -0.25 0.230	3.05 \pm 0.10 0.120	1.65 -0.25 0.060	0.14	63.80	1.30	0.02	0.027	25 \pm 25%
5961000111	5.99 Max 0.235 Max	2.91 Min 0.115 Min	1.69 Max 0.066 Max	0.14	63.80	1.30	0.02	0.027	25 \pm 25%
5961000201	9.50 \pm 0.20 0.375	4.75 \pm 0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.072	0.15	55 \pm 25%
5961000211	9.74 Max 0.383 Max	4.56 Min 0.180 Min	3.34 Max 0.132 Max	0.83	28.60	2.07	0.072	0.15	55 \pm 25%
5961000221	10.20 Max 0.401 Max	4.10 Min 0.162 Min	3.80 Max 0.149 Max	0.83	28.60	2.07	0.072	0.15	55 \pm 25%
5961000301	12.70 \pm 0.25 0.500	7.15 \pm 0.20 0.281	4.90 -0.25 0.188	2.00	22.90	2.95	0.129	0.38	69 \pm 25%

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 (888) 324-7748 (888) 337-7483 E -mail: ferrites@fair-rite.com

Low Permeability, 61 ($\mu_i=125$) material

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^2)$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5961000321	13.45 Max 0.529 Max	6.45 Min 0.254 Min	5.40 Max 0.212 Max	2.00	22.90	2.95	0.129	0.38	69 ±25%
5961001101	12.70 ±0.25 0.500	7.90 ±0.20 0.312	6.35 ±0.25 0.250	2.40	20.80	3.12	0.15	0.47	75 ±25%
5961001121	13.45 Max 0.529 Max	7.20 Min 0.283 Min	7.10 Max 0.280 Max	2.40	20.80	3.12	0.15	0.47	75 ±25%
5961001901	12.70 ±0.25 0.500	7.90 ±0.20 0.312	12.70 ±0.35 0.500	4.70	10.40	3.12	0.299	0.93	150 ±25%
5961001921	13.45 Max 0.529 Max	7.20 Min 0.283 Min	13.55 Max 0.533 Max	4.70	10.40	3.12	0.299	0.93	150 ±25%
5961004901	16.00 ±0.40 0.630	9.60 ±0.30 0.378	6.35 ±0.25 0.250	4.00	19.40	3.85	0.199	0.77	80 ±25%
5961004921	16.90 Max 0.665 Max	8.80 Min 0.347 Min	7.10 Max 0.280 Max	4.00	19.40	3.85	0.199	0.77	80 ±25%
5961000601	21.00 ±0.35 0.825	13.20 ±0.30 0.520	6.35 ±0.25 0.250	6.40	21.30	5.20	0.243	1.26	75 ±25%
5961000621	21.85 Max 0.860 Max	12.40 Min 0.489 Min	7.10 Max 0.280 Max	6.40	21.30	5.20	0.243	1.26	75 ±25%
5961000501	21.00 ±0.35 0.825	13.20 ±0.30 0.520	11.90 ±0.40 0.468	12.00	11.40	5.20	0.46	2.36	135 ±25%
5961001801	22.10 ±0.40 0.870	13.70 ±0.30 0.540	6.35 ±0.25 0.250	7.20	20.70	5.40	0.262	1.42	75 ±25%
5961001821	23.00 Max 0.905 Max	12.90 Min 0.508 Min	7.10 Max 0.280 Max	7.20	20.70	5.40	0.262	1.42	75 ±25%
5961001001	29.00 ±0.65 1.142	19.00 ±0.50 0.748	7.50 ±0.25 0.295	13.00	19.80	7.30	0.37	2.70	80 ±25%
5961001021	30.15 Max 1.187 Max	18.00 Min 0.708 Min	8.25 Max 0.325 Max	13.00	19.80	7.30	0.37	2.70	80 ±25%
5961001201	29.00 ±0.65 1.142	19.00 ±0.50 0.748	13.85 ±0.30 0.545	26.00	10.70	7.30	0.68	5.00	145 ±25%
5961001221	30.15 Max 1.187 Max	18.00 Min 0.708 Min	14.65 Max 0.576 Max	26.00	10.70	7.30	0.68	5.00	145 ±25%
5961001701	31.75 ±0.75 1.250	19.05 ±0.50 0.750	9.50 ±0.30 0.375	23.00	12.90	7.60	0.59	4.50	120 ±25%
5961001721	33.00 Max 1.299 Max	18.05 Min 0.729 Min	10.30 Max 0.405 Max	23.00	12.90	7.60	0.59	4.50	120 ±25%
5961002701	35.55 ±0.75 1.400	23.00 ±0.55 0.900	12.70 ±0.50 0.500	33.00	11.20	8.90	0.79	7.00	140 ±25%
5961002721	36.80 Max 1.449 Max	21.95 Min 0.864 Min	13.70 Max 0.539 Max	33.00	11.20	8.90	0.79	7.00	140 ±25%
5961003801	61.00 ±1.30 2.400	35.55 ±0.85 1.400	12.70 ±0.50 0.500	106.00	9.20	14.50	1.58	22.80	170 ±25%
5961003821	62.80 Max 2.472 Max	34.20 Min 1.346 Min	13.70 Max 0.539 Max	106.00	9.20	14.50	1.58	22.80	170 ±25%

Low-Medium Permeability, 52 ($\mu_i=250$) material

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^2)$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5952020201	5.84 -0.26 0.225	3.00 ±0.10 0.118	1.65 -0.25 0.060	0.15	63.88	1.28	0.02	0.0256	49 ±25%
5952020301	9.42 ±0.20 0.371	4.72 ±0.15 0.186	3.30 -0.25 0.125	0.87	28.66	2.06	0.072	0.147	110 ±25%
5952020401	12.60 ±0.25 0.496	6.99 ±0.20 0.275	4.90 -0.25 0.188	2.16	22.31	2.90	0.13	0.378	141 ±25%
5952020501	12.45 ±0.25 0.490	7.80 ±0.20 0.307	6.35 ±0.25 0.250	2.46	21.24	3.06	0.144	0.442	148 ±25%

Low-Medium Permeability, 52 ($\mu_i=250$) material

Part Number	A	B	C	Wt. (g)	$\sum l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5952020601	21.70 \pm 0.40 0.854	13.50 \pm 0.30 0.531	6.35 \pm 0.25 0.250	7.54	20.80	5.33	0.256	1.368	151 \pm 25%
5952020701	28.80 \pm 0.65 1.134	18.70 \pm 0.50 0.736	7.50 \pm 0.25 0.250	14.81	19.34	7.23	0.374	2.702	162 \pm 25%
5952020801	35.25 \pm 0.75 1.388	22.60 \pm 0.55 0.890	12.70 \pm 0.50 0.500	38.26	11.10	8.79	0.792	6.959	283 \pm 25%
5952003801	60.00 \pm 1.30 2.362	35.35 \pm 0.60 1.392	12.70 \pm 0.50 0.500	133.44	9.14	14.50	1.58	22.80	325 \pm 25%

Low-Medium Permeability, 43 ($\mu_i=800$) material

Part Number	A	B	C	Wt. (g)	$\sum l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5943000801	3.95 \pm 0.15 0.155	2.15 \pm 0.15 0.088	1.40 -0.25 0.050	0.05	87.60	0.92	0.011	0.0097	117 \pm 20%
5943000101	5.95 -0.25 0.230	3.05 \pm 0.10 0.120	1.65 -0.25 0.060	0.14	63.80	1.30	0.02	0.027	158 \pm 20%
5943000111	5.99 Max 0.235 Max	2.91 Min 0.115 Min	1.69 Max 0.066 Max	0.14	63.80	1.30	0.02	0.027	158 \pm 20%
5943000901	5.95 -0.25 0.230	3.05 \pm 0.10 0.120	3.05 \pm 0.10 0.120	0.29	31.80	1.30	0.041	0.053	315 \pm 20%
5943000911	5.99 Max 0.235 Max	2.91 Min 0.115 Min	3.19 Max 0.126 Max	0.29	31.80	1.30	0.041	0.053	315 \pm 20%
5943000201	9.50 \pm 0.20 0.375	4.75 \pm 0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.072	0.15	350 \pm 20%
5943000211	9.74 Max 0.383 Max	4.56 Min 0.180 Min	3.34 Max 0.132 Max	0.83	28.60	2.07	0.072	0.15	350 \pm 20%
5943000221	10.20 Max 0.401 Max	4.10 Min 0.162 Min	3.80 Max 0.149 Max	0.83	28.60	2.07	0.072	0.15	350 +20%, -25%
5943000301	12.70 \pm 0.25 0.500	7.15 \pm 0.20 0.281	4.90 -0.25 0.188	2.00	22.90	2.95	0.129	0.38	440 \pm 20%
5943000321	13.45 Max 0.529 Max	6.45 Min 0.254 Min	5.40 Max 0.213 Max	2.00	22.90	2.95	0.129	0.38	440 +20%, -25%
5943001101	12.70 \pm 0.25 0.500	7.90 \pm 0.20 0.312	6.35 \pm 0.25 0.250	2.40	20.80	3.12	0.15	0.47	480 \pm 20%
5943001121	13.45 Max 0.529 Max	7.20 Min 0.283 Min	7.10 Max 0.280 Max	2.40	20.80	3.12	0.15	0.47	480 +20%, -25%
5943001901	12.70 \pm 0.25 0.500	7.90 \pm 0.20 0.312	12.70 \pm 0.35 0.500	4.70	10.40	3.12	0.299	0.93	965 \pm 20%
5943001921	13.45 Max 0.529 Max	7.20 Min 0.283 Min	13.55 Max 0.533 Max	4.70	10.40	3.12	0.299	0.93	965 +20%, -25%
5943005101	16.00 \pm 0.40 0.630	9.60 \pm 0.30 0.378	4.75 -0.25 0.182	2.80	26.60	3.85	0.145	0.56	375 \pm 20%
5943004901	16.00 \pm 0.40 0.630	9.60 \pm 0.30 0.378	6.35 \pm 0.25 0.250	4.00	19.40	3.85	0.199	0.77	520 \pm 20%
5943004921	16.90 Max 0.665 Max	8.80 Min 0.347 Min	7.10 Max 0.280 Max	4.00	19.40	3.85	0.199	0.77	520 +20%, -25%
5943000601	21.00 \pm 0.35 0.825	13.20 \pm 0.30 0.520	6.35 \pm 0.25 0.250	6.40	21.30	5.20	0.243	1.26	470 \pm 20%
5943000621	21.85 Max 0.860 Max	12.40 Min 0.489 Min	7.10 Max 0.280 Max	6.40	21.30	5.20	0.243	1.26	470 +20%, -25%
5943000501	21.00 \pm 0.35 0.825	13.20 \pm 0.30 0.520	11.90 \pm 0.40 0.468	12.00	11.40	5.20	0.46	2.36	885 \pm 20%
5943000521	21.85 Max 0.860 Max	12.40 Min 0.489 Min	12.80 Max 0.503 Max	12.00	11.40	5.20	0.46	2.36	885 +20%, -25%
5943001801	22.10 \pm 0.40 0.870	13.70 \pm 0.30 0.540	6.35 \pm 0.25 0.250	7.20	20.70	5.40	0.262	1.42	485 \pm 20%

Low-Medium Permeability, 43 ($\mu_i=800$) material

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^2)$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5943001821	23.00 Max 0.905 Max	12.90 Min 0.508 Min	7.10 Max 0.279 Max	7.20	20.70	5.40	0.262	1.42	485 +20%, -25%
5943007601	22.10 \pm 0.40 0.870	13.70 \pm 0.30 0.540	12.70 \pm 0.45 0.500	15.00	10.30	5.40	0.52	2.83	970 \pm 20%
5943001301	25.40 \pm 0.60 1.000	15.50 \pm 0.50 0.610	6.35 \pm 0.25 0.250	9.60	20.00	6.20	0.308	1.90	500 \pm 20%
5943001401	25.40 \pm 0.60 1.000	15.50 \pm 0.50 0.610	8.15 \pm 0.30 0.320	12.00	15.10	6.20	0.41	2.52	645 \pm 20%
5943001421	26.50 Max 1.043 Max	14.50 Min 0.571 Min	8.95 Max 0.352 Max	12.00	15.10	6.20	0.41	2.52	645 +20%, -25%
5943006401	25.40 \pm 0.60 1.000	15.50 \pm 0.50 0.610	12.70 \pm 0.50 0.500	19.00	10.00	6.20	0.62	3.80	1000 \pm 20%
5943006421	26.50 Max 1.043 Max	14.50 Min 0.571 Min	13.70 Max 0.539 Max	19.00	10.00	6.20	0.62	3.80	1000 +20%, -25%
5943001001	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	7.50 \pm 0.25 0.295	13.00	19.80	7.30	0.37	2.70	510 \pm 20%
5943001021	30.15 Max 1.187 Max	18.00 Min 0.708 Min	8.25 Max 0.325 Max	13.00	19.80	7.30	0.37	2.70	510 +20%, -25%
5943001201	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	13.85 \pm 0.30 0.545	26.00	10.70	7.30	0.68	5.00	950 \pm 20%
5943001601	31.10 \pm 0.75 1.225	19.05 \pm 0.50 0.750	7.90 \pm 0.30 0.312	18.00	16.20	7.60	0.47	3.53	620 \pm 20%
5943001701	31.75 \pm 0.75 1.250	19.05 \pm 0.50 0.750	9.50 \pm 0.30 0.375	23.00	12.90	7.60	0.59	4.50	775 \pm 20%
5943002701	35.55 \pm 0.75 1.400	23.00 \pm 0.55 0.900	12.70 \pm 0.50 0.500	33.00	11.20	8.90	0.79	7.00	885 \pm 20%
5943002721	36.80 Max 1.449 Max	21.95 Min 0.864 Min	13.70 Max 0.539 Max	33.00	11.20	8.90	0.79	7.00	885 +20%, -25%
5943018601	43.60 \pm 1.00 1.717	23.10 \pm 0.50 0.909	18.00 \pm 0.50 0.709	90.00	5.50	9.80	1.78	17.50	1850 \pm 25%
5943017301	48.30 \pm 1.00 1.902	31.80 \pm 0.60 1.252	19.05 \pm 0.35 0.750	94.00	7.90	12.20	1.55	18.90	1275 \pm 25%
5943003801	61.00 \pm 1.30 2.400	35.55 \pm 0.85 1.400	12.70 \pm 0.50 0.500	106.00	9.20	14.50	1.58	22.80	1075 \pm 20%
5943003821	62.80 Max 2.472 Max	34.20 Min 1.347 Min	13.70 Max 0.539 Max	106.00	9.20	14.50	1.58	22.80	1075 +20%, -25%
5943011101	73.65 \pm 1.50 2.900	38.85 \pm 0.75 1.530	12.70 \pm 0.40 0.500	188.00	7.80	16.70	2.15	35.90	1300 \pm 25%
5943011121	75.85 Max 2.978 Max	37.60 Min 1.480 Min	13.60 Max 0.535 Max	188.00	7.80	16.70	2.15	35.90	1300 +25%, -30%
5943015901	100.00 \pm 2.00 3.937	55.00 \pm 1.20 2.165	12.70 \pm 0.30 0.500	320.00	8.30	23.00	2.77	63.70	1215 \pm 25%
5943017501	102.60 \pm 2.10 4.039	63.50 \pm 1.30 2.500	15.85 \pm 0.35 0.624	360.00	8.30	25.10	3.00	70.50	1225 \pm 25%

Medium Permeability, 77 ($\mu_i=2000$) & 78 ($\mu_i=2300$) materials

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^2)$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5978002101	4.95 -0.25 0.190	2.20 +0.15 0.090	1.40 -0.25 0.050	0.09	69.20	1.04	0.015	0.0157	440 \pm 25%
5977000101	5.95 -0.25 0.230	3.05 \pm 0.10 0.120	1.65 -0.25 0.060	0.14	63.80	1.30	0.02	0.027	420 \pm 25%
5977000201	9.50 \pm 0.20 0.375	4.75 \pm 0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.072	0.15	945 \pm 25%
5977000211	9.74 Max 0.383 Max	4.56 Min 0.180 Min	3.34 Max 0.131 Max	0.83	28.60	2.07	0.072	0.15	945 \pm 25%

Quick Link: www.fair-rite.com/tor

Medium Permeability, 77 ($\mu=2000$) & 78 ($\mu=2300$) materials

Part Number	A	B	C	Wt. (g)	$\sum l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5977000221	10.20 Max 0.401 Max	4.10 Min 0.162 Min	3.80 Max 0.149 Max	0.83	28.60	2.07	0.072	0.15	945 +25%, -30%
5977000301	12.70 \pm 0.25 0.500	7.15 \pm 0.20 0.281	4.90 -0.25 0.188	2.00	22.90	2.95	0.129	0.38	1180 \pm 25%
5977000321	13.45 Max 0.529 Max	6.45 Min 0.254 Min	5.40 Max 0.212 Max	2.00	22.90	2.95	0.129	0.38	1180 +25%, -30%
5977001101	12.70 \pm 0.25 0.500	7.90 \pm 0.20 0.312	6.35 \pm 0.25 0.250	2.40	20.80	3.12	0.15	0.47	1300 \pm 25%
5977001121	13.45 Max 0.529 Max	7.20 Min 0.284 Min	7.10 Max 0.279 Max	2.40	20.80	3.12	0.15	0.47	1300 +25%, -30%
5977001901	12.70 \pm 0.25 0.500	7.90 \pm 0.20 0.312	12.70 \pm 0.35 0.500	4.70	10.40	3.12	0.299	0.93	2595 \pm 25%
5977001921	13.45 Max 0.529 Max	7.20 Min 0.284 Min	13.55 Max 0.533 Max	4.70	10.40	3.12	0.299	0.93	2595 +25%, -30%
5977005101	16.00 \pm 0.40 0.630	9.60 \pm 0.30 0.378	4.75 -0.25 0.182	2.80	26.60	3.85	0.145	0.56	1015 \pm 25%
5977004901	16.00 \pm 0.40 0.630	9.60 \pm 0.30 0.378	6.35 \pm 0.25 0.250	4.00	19.40	3.85	0.199	0.77	1400 \pm 25%
5977000601	21.00 \pm 0.35 0.825	13.20 \pm 0.30 0.520	6.35 \pm 0.25 0.250	6.40	21.30	5.20	0.243	1.26	1270 \pm 25%
5977000621	21.85 Max 0.860 Max	12.40 Min 0.489 Min	7.10 Max 0.279 Max	6.40	21.30	5.20	0.243	1.26	1270 +25%, -30%
5977000501	21.00 \pm 0.35 0.825	13.20 \pm 0.30 0.520	11.90 \pm 0.40 0.468	12.00	11.40	5.20	0.46	2.36	2375 \pm 25%
5977001801	22.10 \pm 0.40 0.870	13.70 \pm 0.30 0.540	6.35 \pm 0.25 0.250	7.20	20.70	5.40	0.262	1.42	1305 \pm 25%
5977001821	23.00 Max 0.905 Max	12.90 Min 0.508 Min	7.10 Max 0.279 Max	7.20	20.70	5.40	0.262	1.42	1305 +25%, -30%
5977007601	22.10 \pm 0.40 0.870	13.70 \pm 0.30 0.540	12.70 \pm 0.45 0.500	15.00	10.30	5.40	0.52	2.83	2615 \pm 25%
5978007601	22.10 \pm 0.40 0.870	13.70 \pm 0.30 0.540	12.70 \pm 0.45 0.500	15.00	10.30	5.40	0.52	2.83	2795 \pm 25%
5978007621	23.00 Max 0.905 Max	12.90 Min 0.508 Min	13.65 Max 0.537 Max	15.00	10.30	5.40	0.52	2.83	2795 +25%, -30%
5977001301	25.40 \pm 0.60 1.000	15.50 \pm 0.50 0.610	6.35 \pm 0.25 0.250	9.60	20.00	6.20	0.308	1.90	1350 \pm 25%
5977001321	26.50 Max 1.043 Max	14.50 Min 0.571 Min	7.10 Max 0.279 Max	9.60	20.00	6.20	0.308	1.90	1350 +25%, -30%
5977001401	25.40 \pm 0.60 1.000	15.50 \pm 0.50 0.610	8.15 \pm 0.30 0.320	12.00	15.10	6.20	0.41	2.52	1730 \pm 25%
5977001421	26.50 Max 1.043 Max	14.50 Min 0.571 Min	8.95 Max 0.352 Max	12.00	15.10	6.20	0.41	2.52	1730 +25%, -30%
5977006401	25.40 \pm 0.60 1.000	15.50 \pm 0.50 0.610	12.70 \pm 0.50 0.500	19.00	10.00	6.20	0.62	3.80	2700 \pm 25%
5977001001	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	7.50 \pm 0.25 0.295	13.00	19.80	7.30	0.37	2.70	1365 \pm 25%
5977001021	30.15 Max 1.187 Max	18.00 Min 0.709 Min	8.25 Max 0.324 Max	13.00	19.80	7.30	0.37	2.70	1365 +25%, -30%
5977001201	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	13.85 \pm 0.30 0.545	26.00	10.70	7.30	0.68	5.00	2520 \pm 25%
5977001221	30.15 Max 1.187 Max	18.00 Min 0.709 Min	14.65 Max 0.576 Max	26.00	10.70	7.30	0.68	5.00	2520 +25%, -30%
5978001201	29.00 \pm 0.65 1.142	19.00 \pm 0.50 0.748	13.85 \pm 0.30 0.545	26.00	10.70	7.30	0.68	5.00	2695 \pm 25%
5978001221	30.15 Max 1.187 Max	18.00 Min 0.709 Min	14.65 Max 0.576 Max	26.00	10.70	7.30	0.68	5.00	2695 +25%, -30%
5977001601	31.10 \pm 0.75 1.225	19.05 \pm 0.50 0.750	7.90 \pm 0.30 0.312	18.00	16.20	7.60	0.47	3.53	1665 \pm 25%
5977001621	32.25 Max 1.273 Max	18.05 Min 0.711 Min	8.70 Max 0.342 Max	18.00	16.20	7.60	0.47	3.53	1665 +25%, -30%
5977001701	31.75 \pm 0.75 1.250	19.05 \pm 0.50 0.750	9.50 \pm 0.30 0.375	23.00	12.90	7.60	0.59	4.50	2090 \pm 25%

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Medium Permeability, 77 ($\mu_i=2000$) & 78 ($\mu_i=2300$) materials

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^2)$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5977001721	33.00 Max 1.299 Max	18.05 Min 0.711 Min	10.30 Max 0.405 Max	23.00	12.90	7.60	0.59	4.50	2090 +25%, -30%
5978001701	31.75 \pm 0.75 1.250	19.05 \pm 0.50 0.750	9.50 \pm 0.30 0.375	23.00	12.90	7.60	0.59	4.50	2230 \pm 25%
5978001721	33.00 Max 1.299 Max	18.05 Min 0.711 Min	10.30 Max 0.405 Max	23.00	12.90	7.60	0.59	4.50	2230 +25%, -30%
5977002701	35.55 \pm 0.75 1.400	23.00 \pm 0.55 0.900	12.70 \pm 0.50 0.500	33.00	11.20	8.90	0.79	7.00	2400 \pm 25%
5977002721	36.80 Max 1.448 Max	21.95 Min 0.865 Min	13.70 Max 0.539 Max	33.00	11.20	8.90	0.79	7.00	2400 +25%, -30%
5978002701	35.55 \pm 0.75 1.400	23.00 \pm 0.55 0.900	12.70 \pm 0.50 0.500	33.00	11.20	8.90	0.79	7.00	2545 \pm 25%
5978002721	36.80 Max 1.448 Max	21.95 Min 0.865 Min	13.70 Max 0.539 Max	33.00	11.20	8.90	0.79	7.00	2545 +25%, -30%
5978018601	43.60 \pm 1.00 1.717	23.10 \pm 0.50 0.909	18.00 \pm 0.50 0.709	90.00	5.50	9.80	1.78	17.50	5260 \pm 25%
5978017301	48.30 \pm 1.00 1.902	31.80 \pm 0.60 1.252	19.05 \pm 0.35 0.750	94.00	7.90	12.20	1.55	18.90	3670 \pm 25%
5978017321	49.80 Max 1.960 Max	30.70 Min 1.209 Min	19.90 Max 0.783 Max	94.00	7.90	12.20	1.55	18.90	3670 +25%, -30%
5978018701	56.30 \pm 1.20 2.217	32.70 \pm 0.70 1.287	18.00 \pm 0.50 0.709	135.00	6.40	13.30	2.07	27.60	4500 \pm 25%
5978018721	58.00 Max 2.283 Max	31.50 Min 1.240 Min	19.00 Max 0.748 Max	135.00	6.40	13.30	2.07	27.60	4500 +25%, -30%
5977003801	61.00 \pm 1.30 2.400	35.55 \pm 0.85 1.400	12.70 \pm 0.50 0.500	106.00	9.20	14.50	1.58	22.80	2950 \pm 25%
5977003821	62.80 Max 2.472 Max	34.20 Min 1.347 Min	13.70 Max 0.539 Max	106.00	9.20	14.50	1.58	22.80	2950 +25%, -30%
5978003801	61.00 \pm 1.30 2.400	35.55 \pm 0.85 1.400	12.70 \pm 0.50 0.500	106.00	9.20	14.50	1.58	22.80	3155 \pm 25%
5978003821	62.80 Max 2.472 Max	34.20 Min 1.347 Min	13.70 Max 0.539 Max	106.00	9.20	14.50	1.58	22.80	3155 +25%, -30%
5977011101	73.65 \pm 1.50 2.900	38.85 \pm 0.75 1.530	12.70 \pm 0.40 0.500	188.00	7.80	16.70	2.15	35.90	3500 \pm 25%
5977011121	75.65 Max 2.978 Max	37.60 Min 1.480 Min	13.60 Max 0.535 Max	188.00	7.80	16.70	2.15	35.90	3500 +25%, -30%
5978011101	73.65 \pm 1.50 2.900	38.85 \pm 0.75 1.530	12.70 \pm 0.40 0.500	188.00	7.80	16.70	2.15	35.90	3740 \pm 25%
5978015901	100.00 \pm 2.00 3.937	55.00 \pm 1.20 2.165	12.70 \pm 0.30 0.500	320.00	8.30	23.00	2.77	63.70	3500 \pm 25%
5978008001	154.20 \pm 3.81 6.070	69.40 \pm 1.73 2.732	19.05 \pm 0.50 0.750	1240.00	4.10	31.30	7.60	237.00	7000 \pm 25%
5978014001	101.60 \pm 2.10 4.000	75.20 \pm 1.50 2.961	24.75 \pm 0.55 0.974	425.00	8.40	27.40	3.24	88.70	3425 \pm 25%

High Permeability, 75 ($\mu_i=5000$) material

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^2)$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5975000801	3.95 \pm 0.15 0.155	2.15 \pm 0.15 0.088	1.40 -0.25 0.050	0.05	87.60	0.92	0.011	0.0097	585 \pm 20%
5975002101	4.95 -0.25 0.190	2.20 \pm 0.15 0.090	1.40 -0.25 0.050	0.09	69.20	1.04	0.015	0.0157	770 \pm 20%
5975000101	5.95 -0.25 0.230	3.05 \pm 0.10 0.120	1.65 -0.25 0.060	0.14	63.80	1.30	0.02	0.027	785 \pm 20%
5975000201	9.50 \pm 0.20 0.375	4.75 \pm 0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.072	0.15	2200 \pm 20%

High Permeability, 75 ($\mu_i=5000$) material

Part Number	A	B	C	Wt. (g)	$\Sigma l/A(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5975000211	9.74 Max 0.383 Max	4.56 Min 0.180 Min	3.34 Max 0.132 Max	0.83	28.60	2.07	0.072	0.15	2200 ±20%
5975000221	10.20 Max 0.401 Max	4.10 Min 0.162 Min	3.80 Max 0.149 Max	0.83	28.60	2.07	0.072	0.15	2200 +20%, -25%
5975000301	12.70 ±0.25 0.500	7.15 ±0.20 0.281	4.90 -0.25 0.188	2.00	22.90	2.95	0.129	0.38	2725 ±20%
5975000321	13.45 Max 0.529 Max	6.45 Min 0.254 Min	5.40 Max 0.212 Max	2.00	22.90	2.95	0.129	0.38	2725 +20%, -25%
5975001101	12.70 ±0.25 0.500	7.90 ±0.20 0.312	6.35 ±0.25 0.250	2.40	20.80	3.12	0.15	0.47	3000 ±20%
5975001121	13.45 Max 0.529 Max	7.20 Min 0.284 Min	7.10 Max 0.280 Max	2.40	20.80	3.12	0.15	0.47	3000 +20%, -25%
5975001901	12.70 ±0.25 0.500	7.90 ±0.20 0.312	12.70 ±0.35 0.500	4.70	10.40	3.12	0.299	0.93	6000 ±20%
5975005101	16.00 ±0.40 0.630	9.60 ±0.30 0.378	4.75 -0.25 0.182	2.80	26.60	3.85	0.145	0.56	2350 ±20%
5975004901	16.00 ±0.40 0.630	9.60 ±0.30 0.378	6.35 ±0.25 0.250	4.00	19.40	3.85	0.199	0.77	3225 ±20%
5975004921	16.90 Max 0.665 Max	8.80 Min 0.347 Min	7.10 Max 0.280 Max	4.00	19.40	3.85	0.199	0.77	3225 +20%, -25%
5975000601	21.00 ±0.35 0.825	13.20 ±0.30 0.520	6.35 ±0.25 0.250	6.40	21.30	5.20	0.243	1.26	2950 ±20%
5975000621	21.85 Max 0.860 Max	12.40 Min 0.489 Min	7.10 Max 0.280 Max	6.40	21.30	5.20	0.243	1.26	2950 +20%, -25%
5975000501	21.00 ±0.35 0.825	13.20 ±0.30 0.520	11.90 ±0.40 0.468	12.00	11.40	5.20	0.46	2.36	5500 ±20%
5975001801	22.10 ±0.40 0.870	13.70 ±0.30 0.540	6.35 ±0.25 0.250	7.20	20.70	5.40	0.262	1.42	3025 ±20%
5975001821	23.00 Max 0.905 Max	12.90 Min 0.508 Min	7.10 Max 0.280 Max	7.20	20.70	5.40	0.262	1.42	3025 +20%, -25%
5975007601	22.10 ±0.40 0.870	13.70 ±0.30 0.540	12.70 ±0.45 0.500	15.00	10.30	5.40	0.52	2.83	6100 ±20%
5975007621	23.00 Max 0.905 Max	12.90 Min 0.508 Min	13.65 Max 0.537 Max	15.00	10.30	5.40	0.52	2.83	6100 +20%, -25%
5975001401	25.40 ±0.60 1.000	15.50 ±0.50 0.610	8.15 ±0.30 0.320	12.00	15.10	6.20	0.41	2.52	4000 ±20%
5975006401	25.40 ±0.60 1.000	15.50 ±0.50 0.610	12.70 ±0.50 0.500	19.00	10.00	6.20	0.62	3.80	6250 ±20%
5975002701	35.55 ±0.75 1.400	23.00 ±0.55 0.900	12.70 ±0.50 0.500	33.00	11.20	8.90	0.79	7.00	5500 ±25%
5975021921	50.40 Max 1.984 Max	32.50 Min 1.278 Min	16.85 Max 0.663 Max	76.00	10.59	12.70	1.20	15.30	6500 +25%, -30%
5975022021	50.40 Max 1.984 Max	32.50 Min 1.278 Min	20.00 Max 0.787 Max	91.00	8.86	12.70	1.44	18.27	7770 +25%, -30%
5975003801	61.00 ±1.30 2.400	35.55 ±0.85 1.400	12.70 ±0.50 0.500	106.00	9.20	14.50	1.58	22.80	6850 ±25%
5975003821	62.80 Max 2.472 Max	34.20 Min 1.347 Min	13.70 Max 0.539 Max	106.00	9.20	14.50	1.58	22.80	6850 +25%, -30%
5975011101	73.65 ±1.50 2.900	38.85 ±0.75 1.530	12.70 ±0.40 0.500	188.00	7.80	16.70	2.15	35.90	8100 ±25%
5975011121	75.65 Max 2.978 Max	37.60 Min 1.481 Min	13.60 Max 0.535 Max	188.00	7.80	16.70	2.15	35.90	8100 +25%, -30%

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High Permeability, 76 ($\mu_i=10,000$) material

Part Number	A	B	C	Wt. (g)	$\sum lA(\text{cm}^{-1})$	$l_e(\text{cm})$	$A_e(\text{cm}^2)$	$V_e(\text{cm}^3)$	$A_L(\text{nH})$
5976000801	3.95 ±0.15 0.155	2.15 +0.15 0.088	1.40 -0.25 0.050	0.05	87.60	0.92	0.011	0.0097	1430 ±30%
5976000101	5.95 -0.25 0.230	3.05 ±0.10 0.120	1.65 -0.25 0.060	0.14	63.80	1.30	0.02	0.027	1950 ±30%
5976000201	9.50 ±0.20 0.375	4.75 ±0.15 0.187	3.30 -0.25 0.125	0.83	28.60	2.07	0.072	0.15	4400 ±30%
5976000211	9.74 Max 0.383 Max	4.56 Min 0.180 Min	3.34 Max 0.132 Max	0.83	28.60	2.07	0.072	0.15	4400 ±30%
5976000221	10.20 Max 0.401 Max	4.10 Min 0.162 Min	3.80 Max 0.149 Max	0.83	28.60	2.07	0.072	0.15	4400 +30%, -35%
5976022121	30.10 Max 1.185 Max	17.90 Min 0.705 Min	16.00 Max 0.629 Max	27.50	9.78	7.32	0.749	5.48	12800 ±30%
5976022021	50.40 Max 1.984 Max	32.50 Min 1.278 Min	20.00 Max 0.787 Max	91.00	8.86	12.70	1.44	18.27	14200 ±30%
5976011121	75.65 Max 2.978 Max	37.60 Min 1.481 Min	13.60 Max 0.535 Max	188.00	7.80	16.50	2.14	35.30	16000 ±30%