

E CORES

COLOR CODE

- 2 Red/Clear
- 8 Yellow/Red
- 14 Black/Red
- 18 Green/Red
- 19 Red/Green
- 26 Yellow/White
- 30 Green/Gray
- 34 Gray/Blue
- 35 Yellow/Gray
- 40 Green/Yellow
- 45 Black/Black
- 52 Green/Blue

TYPICAL PART NO.

E 168 - 26 A / G 015

“A” dimension in 100th inches
Micrometals Mix No.
Letter Indicates Alternate “C” dimension
Indicates Center-leg gap per half in .001 inches

E CORES ORDERED PER HALF

For information on -60 and -70 see Micrometals 200C Series Catalog.

Refer to page 4 for tolerances.
*E-Core sizes from E49 to E100 do not receive color stripes

MICROMETALS Part No. (Bobbin)	AL nH/N ² (Ref. Size)	MAGNETIC DIMENSIONS							
		A	B	C	D	F	G	ℓ	A V W
		in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	cm	cm ² cm ³ cm ²
E49-8	20.5	.500/12.7	.437/11.1	.125/3.18	.312/7.93	.125/3.18	.375/9.53	2.86	.101 .288 .252
E49-18	29.0								
E49-26	38.0								
E49-52	38.0								
(PB49)	(US LAM: EE-28-29)								
E50-26	48.0	.505/12.8	.504/12.8	.148/3.76	.354/8.99	.149/3.78	.354/8.99	3.08	.143 .441 .234
E50-52	47.0								
(No Bobbin Offered)	(DIN: 13/4)								
E65-8	30.5	.645/16.4	.640/16.3	.182/4.62	.471/12.0	.182/4.62	.445/11.3	3.98	.224 .861 .399
E65-26	58.0								
E65-40	51.0								
E65-52	56.0								
(No Bobbin Offered)	(DIN: 16/5)								
E75-2	14.5	.750/19.1	.635/16.1	.187/4.75	.455/11.6	.187/4.75	.562/14.3	4.20	.226 .936 .551
E75-8	33.5								
E75-26	64.0								
E75-40	55.0								
E75-52	59.0								
(PB75)	(US LAM: EI-187)								
E80-8	38.0	0.795/20.2	.784/19.9	.230/5.84	.550/14.0	.230/5.84	.575/14.6	4.84	.333 1.63 .613
E80-26	73.0								
E80-52	73.0								
(PB80)	(DIN: 20/6)								
E99-8	51.0	1.000/25.4	1.000/25.4	.287/7.29	.690/17.5	.287/7.29	.695/17.7	6.08	.548 3.38 .908
E99-26	96.0								
E99-52	96.0								
(PB99)	(DIN: 25/7)								
E100-2	21.0	1.000/25.4	.750/19.1	.250/6.35	.500/12.7	.250/6.35	.750/19.1	5.08	.403 2.05 .806
E100-8	48.0								
E100-18	65.0								
E100-26	92.0								
E100-40	81.0								
E100-52	85.0								
(PB100E)	(US LAM: EE-24-25)								
E101-2	53.0	1.020/25.9	.750/19.1	.555/14.1	.350/8.89	.250/6.35	.765/19.4	3.93	.895 2.36 .581
E101-8	116.0								
(No Bobbin Available)									
Matching I-Core I101-XX									
E118-26	90.0	1.185/30.1	1.185/30.1	.278/7.06	.782/19.9	.278/7.06	.782/19.9	7.14	.498 4.60 1.27
E118-40	80.0								
E118-52	90.0								
(PB118)	(DIN: 30/7)								

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		A	B	C	D	F	G	ℓ	A	V	W
		in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	cm	cm ²	cm ³	cm ²
E125-26	134.0	1.255/31.8	1.215/30.8	.378/9.60	.835/21.2	.378/9.60	.885/22.5	7.45	.922	6.82	1.37
E125-40	113.0										
(No Bobbin Available)	(US LAM: EE-27-38)										
E137-2	32.0	1.375/34.9	1.145/29.1	.375/9.53	.770/19.6	.375/9.53	1.000/25.4	7.40	.907	6.72	1.55
E137-8	67.0										
E137-18	100.0										
E137-26	134.0										
E137-40	113.0										
E137-52	131.0										
(PB137)	(US LAM: EI-375)										
E145-18	112.0	1.455/37.0	1.370/34.8	.425/10.8	.950/24.1	.425/10.8	1.035/26.3	8.50	1.17	9.89	1.84
E145-26	146.0										
E145-52	146.0										
(No Bobbin Available)											
E162-8	105.0	1.625/41.3	1.342/34.1	.500/12.7	.842/21.4	.500/12.7	1.125/28.6	8.41	1.61	13.6	1.70
E162-18	149.0										
E162-26	210.0										
E162-40	175.0										
E162-52	199.0										
(PB162)	(US LAM: EI-21)										
E168-2	43.5	1.685/42.8	1.660/42.2	.590/15.0	1.210/30.7	.475/12.0	1.210/30.7	10.4	1.81	18.5	2.87
E168-8	97.0										
E168-18	135.0										
E168-26	195.0										
E168-40	163.0										
E168-52	179.0										
(PB168)	(DIN: 42/15)										
E168-26/G015	125.0										
E168-40/G015	114.0										
E168-52/G015	125.0										
Gapped E168 with center gap .030in./ .76mm per set											
E168-2A	55.0	1.685/42.8	1.660/42.2	.787/20.0	1.210/30.7	.475/12.0	1.210/30.7	10.4	2.41	24.6	2.87
E168-8A	116.0										
E168-18A	170.0										
E168-26A	232.0										
E168-40A	196.0										
E168-52A	230.0										
(PB168A)	(DIN: 42/20)										
E168-52A/G015	161.0	1.685/42.8	1660/42.2	.787/20.0	1.210/30.7	.475/12.0	1.210/30.7	10.4	2.41	24.6	2.87
Gapped E168A with center gap .030in./ .76mm per set.											

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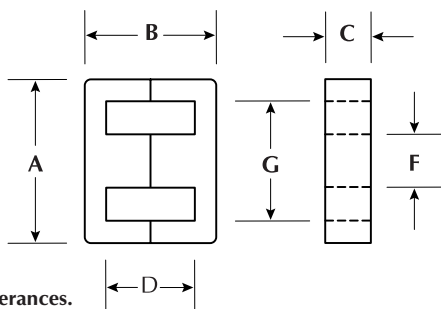
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		A	B	C	D	F	G	ℓ	A	V	W
		in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	cm	cm ²	cm ³	cm ²
E187-8	144.0	1.865/47.4	1.552/39.4	.620/15.7	.952/24.2	.620/15.7	1.250/31.8	9.53	2.48	23.3	1.93
E187-18	213.0										
E187-26	265.0										
E187-40	240.0										
E187-52	265.0										
(PB187)	(US LAM: EI-625)										
E220-2	69.0	2.210/56.1	2.180/55.4	.820/20.8	1.510/38.3	.680/17.3	1.520/38.6	13.2	3.60	47.7	4.09
E220-8	143.0										
E220-18	196.0										
E220-26	275.0										
E220-30	107.0										
E220-34	136.0										
E220-40	240.0										
E220-52	262.0										
(PB220)	(DIN: 55/21)										
E220-26/G020	183.0										
E220-40/G020	168.0										
E220-52/G020	183.0										
Gapped E220 with center gap .040 in./1.02mm per set											
E225-2	76.0	2.240/56.9	1.875/47.6	.745/18.9	1.140/29.0	.745/18.9	1.500/38.1	11.5	3.58	40.8	2.78
E225-8	173.0										
E225-18	240.0										
E225-26	325.0										
E225-40	290.0										
E225-52	325.0										
(PB225)	(US LAM: EI-75)										
E305-2	75.0	3.051/77.5	3.051/77.5	.933/23.7	2.118/53.8	.933/23.7	2.118/53.8	18.5	5.62	104	8.10
E305-8	156.0										
E305-18	222.0										
E305-26	287.0										
E305-30	124.0										
E305-34	150.0										
E305-40	255.0										
E305-52	287.0										
(PB305 or PB305/V0)											
E305-26/G050	165.0										
E305-52/G050	165.0										
Gapped E305 with center gap .100 in./2.54 mm per set											
E305-8A	208.0	3.051/77.5	3.051/77.5	1.244/31.6	2.118/53.8	.933/23.7	2.118/53.8	18.5	7.49	139	8.10
E305-18A	280.0										
E305-26A	382.0										
E305-30A	165.0										
E305-40A	339.0										
E305-52A	382.0										
(PB305A)											

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		in/mm	in/mm	in/mm	in/mm	in/mm	in/mm	cm	cm ² cm ³ cm ²
E305-26A/G050	219.0	3.051/77.5	3.051/77.5	1.244/31.6	2.118/53.8	.933/23.7	2.118/53.8	18.5	7.49 139 8.10
E305-52A/G050	219.0								
Gapped E305A with center gap .100 in./2.54 mm per set									
E450-2	132.0	4.500/114	3.636/92.4	1.375/34.9	2.250/57.2	1.375/34.9	3.120/79.3	22.9	12.2 280 12.7
E450-8	260.0								
E450-18	400.0								
E450-26	540.0								
E450-30	235.0								
E450-34	300.0								
E450-40	480.0								
E450-52	500.0								
(PB450/V0)	(US LAM: EI-30)								
E450-8H	140.0	4.500/114	3.636/92.4	.688/17.5	2.250/57.2	1.375/34.9	3.120/79.3	22.9	6.1 140 12.7
E450-18H	200.0								
E450-52H	270.0								
(PB450/V0 for double stack)									
E610-2	163.0	6.102/155	6.102/155	1.866/47.4	4.236/108	1.866/47.4	4.236/108	37.0	22.5 832 32.4
E610-26	588.0								
E610-34	314.0								

BANDING, STRAPPING AND MOUNTING PRECAUTIONS

Iron powder as a core material is susceptible to performance changes when wrapped with a ferrous material. Iron powder cores are manufactured with a distributed air gap and occasionally a center leg gap. When a ferrous material is added to this type of magnetic structure the core is essentially “shorted out” decreasing the overall “Q” of the coil.

This decrease in “Q” indicates an increase in core loss which will result in a higher than expected operating temperature. This effect will be more significant with the lower permeability materials.

Micrometals suggests using the following nonferrous materials to mount and band iron powder cores:

1. Phosphor bronze or nonmagnetic stainless steel banding material
2. Brass hardware
3. Various electrical tapes
4. Cable Tie wraps
5. Filled epoxy or filled super glue