

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.
 MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION.
 REMOVE ALL BURRS AND SHARP EDGES.

PART NO.	TMC	AECO	MAGNETICS	PERMEA-	NOMINAL PERMA-	NOMINAL DIMENSIONS (Inches before Finish)	PINISH	TEMP. STAB.	NOM. IND.	PREQ.	USUAL RANGE
CI-103-1	A-206068-2	55206-A2	0.800	0.250	0.500	0.800	0.250	2	A	up to 15 Kc	68
CI-103-2	D-951068-4	55206-D4	0.800	0.250	0.500	0.800	0.250	4	D	up to 15 Kc	68
CI-103-3	A-848032-2	5548-A2	0.800	0.500	0.250	0.800	0.250	2	A	30 to 75 Kc	14
CI-103-4	A-11014-2	A-11014-2	0.800	0.500	0.250	0.800	0.250	2	A	30 to 75 Kc	14
CI-103-5	D-608014-4	-	0.800	0.250	0.500	0.800	0.250	4	D	30 to 75 Kc	14
CI-103-6	A-310094-2	55310-A2	1.060	0.580	0.440	1.060	0.440	2	A	up to 15 Kc	125
CI-103-7	A-930157-2	55930-A2	1.060	0.580	0.440	1.060	0.440	2	A	up to 15 Kc	125
CI-103-8	D-671157-3	55930-D4	1.060	0.580	0.440	1.060	0.440	3	D	up to 15 Kc	125
CI-103-9	A-395075-5	55395-A5	1.060	0.580	0.440	1.060	0.440	4	D	10 to 50 Kc	75
CI-103-10	D-269075-4	55894-D4	1.060	0.580	0.440	1.060	0.440	4	D	10 to 50 Kc	75
CI-103-11	A-548127-2	5548-A2	1.300	0.785	0.440	1.300	0.440	2	A	up to 15 Kc	125
CI-103-12	D-381065-3	55071-A2	1.300	0.785	0.440	1.300	0.440	3	D	10 to 50 Kc	60
CI-103-13	A-270028-2	-	1.300	0.785	0.440	1.300	0.440	3	A	30 to 75 Kc	26
CI-103-14	A-270028-2	-	1.300	0.785	0.440	1.300	0.440	3	A	30 to 75 Kc	26
CI-103-15	A-270028-3	-	1.300	0.785	0.440	1.300	0.440	2	A	50 to 200 Kc	14
CI-103-16	A-013015-2	-	1.300	0.785	0.440	1.300	0.440	2	A	50 to 200 Kc	14
CI-103-17	D-013015-3	-	1.300	0.785	0.440	1.300	0.440	3	D	50 to 200 Kc	14
CI-103-18	A-585079-2	55585-A2	1.350	0.920	0.350	1.350	0.350	2	A	up to 15 Kc	125
CI-103-19	A-254168-2	55254-A2	1.570	0.950	0.570	1.570	0.570	2	A	up to 15 Kc	125
CI-103-20	A-438281-2	-	1.840	0.950	0.710	1.840	0.710	2	A	up to 15 Kc	125
CI-103-21	D-466281-3	-	1.840	0.950	0.710	1.840	0.710	3	D	up to 15 Kc	125
CI-103-22	A-759135-3	-	1.840	0.950	0.710	1.840	0.710	3	A	10 to 50 Kc	60
CI-103-23	A-411037-2	-	1.840	1.130	0.600	1.840	0.600	2	A	30 to 75 Kc	26
CI-103-24	A-411037-3	-	1.840	1.130	0.600	1.840	0.600	3	A	30 to 75 Kc	26
CI-103-25	A-957020-2	-	1.840	1.130	0.600	1.840	0.600	2	A	50 to 200 Kc	14
CI-103-26	B-368020-3	-	1.840	1.130	0.600	1.840	0.600	3	B	50 to 200 Kc	14
CI-103-27	A-715152-2	-	2.000	1.250	0.530	2.000	0.530	2	A	up to 15 Kc	125
CI-103-28	A-109156-2	-	2.250	1.400	0.550	2.250	0.550	2	A	up to 15 Kc	125
CI-103-29	D-927156-3	-	2.250	1.400	0.550	2.250	0.550	3	D	up to 15 Kc	125
CI-103-30	A-488075-2	-	2.250	1.400	0.550	2.250	0.550	2	A	10 to 50 Kc	60
CI-103-31	A-384033-2	-	2.250	1.400	0.550	2.250	0.550	2	A	30 to 75 Kc	26
CI-103-32	D-384033-3	-	2.250	1.400	0.550	2.250	0.550	3	D	30 to 75 Kc	26
CI-103-33	D-403032-4	55848-D4	0.800	0.500	0.250	0.800	0.250	4	D	10 to 50 Kc	60
CI-103-34	E-403032-4	55848-E4	0.800	0.500	0.250	0.800	0.250	4	E	10 to 50 Kc	60
CI-103-35	D-058808-4	-	14	.800	.250	.800	.250	4	D	50 to 250Kc	7.8

noted:
 Cores may be furnished stabilized in regard to permeability as follows:
 Type A - Unstabilized - Approximately 1% per 100°F.
 Type B - Stabilized to ±0.1% from 55°F. to 95°F.
 Type C - Stabilized to ±0.1% from 50°F. to 130°F.
 Type D - Stabilized to ±0.1% from 50°F. to 130°F.
 Type E - Stabilized .1 - .4% from 50°F. to 130°F. - AECO only.
 Type F - Stabilized #55206 - +0.1% -0.4% +30°F. to 130°F.
 #55848 - +0.1% -0.2% +30°F. to 130°F.
 #55930 - +0.18% -0.18% +30°F. to 130°F. -
 Magnetics only.
 Type W - Stabilized - ±0.25% or less -65°F. to +185°F. - Magnetics only.

Finishes:
 Cores are coated with various types of enamel and varnish requirements:
 #2 - Enamel - 500 volt rms 60 cycle breakdown requirement
 #3 - Wax tight varnish - no breakdown requirement
 #4 - Wax tight varnish - 500 volt rms 60 cycle breakdown requirement
 #5 - Enamel - 1000 volt rms 60 cycle breakdown requirement
 #6 - Lacquer - 500 volt rms 60 cycle breakdown requirement
 #7 - Epoxy - 1000 volt rms 60 cycle breakdown requirement (tentative)
 #7 finished supplied on unstabilized (A-2) cores only. Maximum temperature 446°F (230°C)

NOTES
 Cores with finishes 2, 4 and 5 are designed to permit winding with heavy Formex insulated wire without supplementary insulation over the core.
 Linear cores (L-6) available in all listed core sizes
 Inductance variation 40 - 110 PPM°C from -55°C to +25°C (-67°F to +100°F)
 85 - 180 PPM°C from +25°C to +85°C (+77°F to 185°F)
 All other characteristics same as the non-linear cores.
 Linear cores are temperature cycled three times between -55°C and +100°C before testing and shipping.
 160 permeability cores are available in all sizes. The inductance limits are ±8% as in all other cores.

REQ. UNIT	MODEL	PROJECT NO.	ASSY. NO.	DATE
PER. USED ON				
FINISH & SPEC. NO.				
HEAT TREAT. SPEC.				
CHECKED				
FINAL APPROVAL				
DRAWN				
ELEC. DES. APP.				
MECH. DES. APP.				
MATERIAL	PERMALLOY POWDER			
WEIGHT PER PC.	CORE, MOLYBDENUM			
STOCK SIZE				
REQ. ITEM	PART NO.	DESCRIPTION		
		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK		
SYMBOL		CI-103		

* NOTE: AECO Part Numbers 951068-4 and 403032-4 should be ordered for deliveries. E tolerances for reasonable deliveries.

CI-103

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