

Properties	Unit	C	E †	H	H-1 †		0-1	*** Q-1	Q-2
Initial Perm. at 1 mc/sec.	-	250	750	850	550	900	1200	125	40
*Max. Perm.	-	1100	1710	4300	3800	3000	6000	400	115
*Sat. Flux Density	Gauss	4200	3800	3400	2800	2000	4100	3300	2400
*Residual Mag.	Gauss	2700	1950	1470	1500	700	2500	1800	
*Coercive Force	Oersted	2.1	.65	.18	.35	.30	0.20	2.1	.47
Temp. Coef. of Initial Perm.	%/°C	.40	.25	.66	.80	.30	.60 max.	.10 max.	.10 Max
Curie Point	+°C	330	160	150	125	70	165	350	450°C
Vol. Resistivity	ohm-cm.	Med.	Med.	Med.	Med.	Med.	Low	High	High
Loss Factor:									
At 1 mcs/sec.	$\frac{1}{100}$.00007	.00008	.00030	.0004	.0003	.00037	.000020	85X10-6
At 5 mcs/sec.		.00008	.0020	.00155	.0010	.005	.0020	.000050	170X10-6
** Color Code		Orange	Blue	Green	Blk/Pink	Grey	Blk/Yel	Red/Blue	Yellow

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*Measurements made on D.C. Ballistic Galvanometer with Hmax = 25 oersteds. Above data is based on nominal values.

**In some instances, ferramic parts may be imprinted with body type designations which differ from the body designation indicated by the color code applied to the part. In such cases, this color code applied to the part will correctly identify the material the part is made of.

***Color Code ALL Cores, unless core property letter is imprinted in material.

****Note: If "Q" material is specified, the Overall Dimension will be up to 5% larger than the dimension shown.

† Do not use for future design.

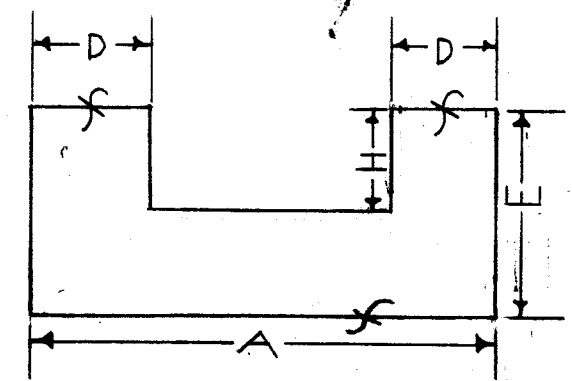
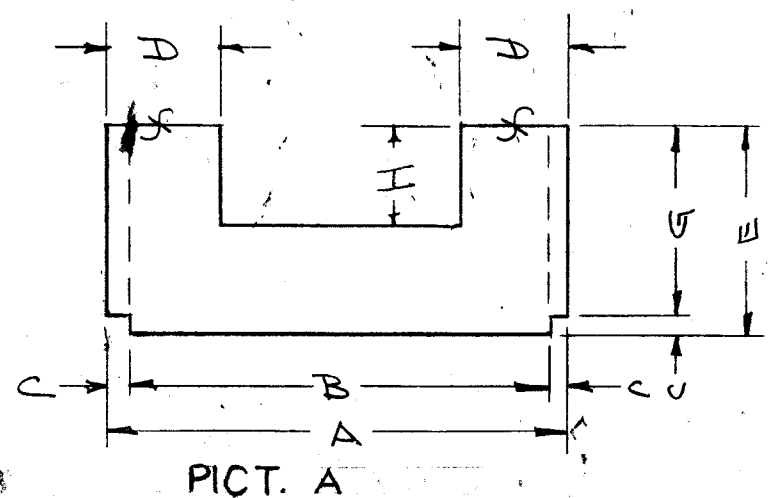
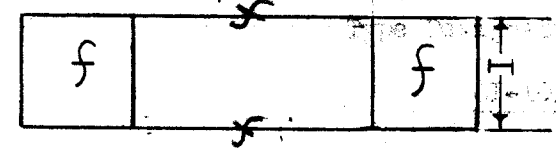
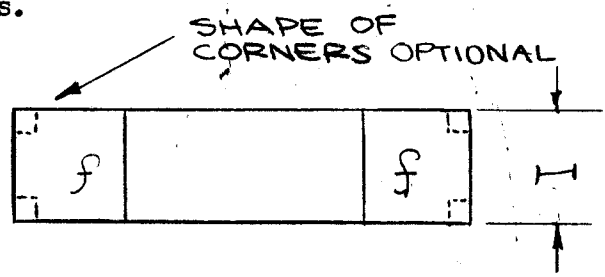
TMC No.	PICT.	Cat. No.	A	± 0.15 B	C	D	E	F	G	H	± 0.10 I
CI-101-1	A	F-137	± 0.40 2.375	± 0.15 2.187	± 0.15 .094	± 0.15 .562	1.062		± 0.15 .969	± 0.10 .500	± 0.10 .562
-2	A	F-164	± 0.40 2.625	± 0.15 2.437	± 0.15 .094	± 0.15 .562	1.062		± 0.15 .969	± 0.10 .500	± 0.10 .562
-3	A	F-165	± 0.45 3.000	± 0.15 2.812	± 0.15 .094	± 0.15 .687	1.312		± 0.15 1.218	± 0.15 .625	± 0.15 .687
-4	A	F-175	± 0.30 2	1.807	± 0.08 .096	.375	± 0.15 1.025		.937	.656	.370
-5	B		± 0.60 4	-	-	± 0.15 1	± 0.20 2	-	-	± 0.15 1	1/2

STANDARD DRAWING

Type Designation To Be In Following Form

CI 101 - 1 - 01

TMC Number Size Core Properties



Note: Two f surfaces to be perpendicular to sides of piece & free from any foreign material. When 2 pcs. are placed together, air gap between mating surfaces shall not be greater than .002.

ISSUE	ITEM	CHANGED FROM	DATE	CH. NO.	DRAFTS	CHECKER	ENG. APP.
K		Q-2 COLUMN ADDED	9-19-67	18514	HG	EA	FB
J		TOL. DEL. FROM -4 G, H, I S401 ADDED, TOL. ADDED	3-8-67	17934			
H		SHAPE CORNERS OPT. ADDED	10-28-66	17138			
G	1	† ANNOTATE ADDED DIMS Q1	1/4/66	15494			
F	1	REVISED TO MFR SPECS	6-3-61	9102			
E	1	ADDED - PICT. B, CI-101-5 PICT. COL. TO CHART	9-6-61	5533	G.G.	AB	
D	1	**** NOTE ADDED TO "Q"	8-19-60	2838	RL	JCB	
C	1	*** NOTE ADDED	4/9/58	3	V	file	
B	1	PROPERTY DATA ADDED	9/1/66	2	JAB	edd	A.J.J.

TOLERANCES		SCALE: 5401-206
DEC. DIM. ±	.005	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP
FRAC. DIM. ±	1/64	
ANGULAR DIM. ±		

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK			
STOCK SIZE			
Ferramic			
MATERIAL			
Core, Transformer			
TYPE & TEMPER	HEAT TREAT. SPEC.	DRAWN	CHECKED
		ARB	edd
FINISH & SPEC. NO.		ELEC. DES. APP.	MECH. DES. APP.

REQ. PER UNIT	MODEL	PROJECT NO.	ASS'Y. NO.	DATE

USED ON

CI 101 K