

REQ. PER UNIT	USED ON	
	MODEL	DATE
	CN-100	

STANDARD DRAWING

SPECIFICATIONS:

- Cap. Dia. Lead Wire Size, Min. Length
5/16- 3/8 #22 Tinned 1 1/2 inch
7/16- 1/2 #20 Copper
5/8- 1 #18 Wire
- Operating Temp.
-40° C. to +85° C.
- Test Voltage
Two times rating.
- Cap. Tol.: ±10%
- Case
Molded Plastic
- Dielectric: Polyester Film

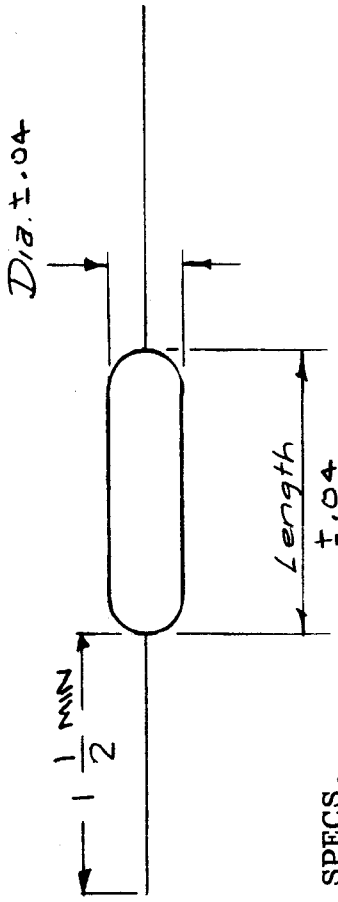
TMC NO.	uf.	VOLTS D. C.	BODY DIA. MAX.	BODY LENGTH MAX.
CN-100-1	0.01	400	3/8	1
CN-100-2	0.022	400	3/8	1 1/4
CN-100-3	0.05	400	7/16	1 1/4
CN-100-4	0.10	400	1/2	1 1/2
CN-100-5	0.25	400	3/4	2 1/4
CN-100-6	0.50	400	3/4	2 1/4
CN-100-7	1.0	400	1	2 1/8
CN-100-8	0.0005	600	5/16	1
CN-100-9	0.001	600	5/16	1
CN-100-10	0.0022	600	5/16	1
CN-100-11	0.003	600	5/16	1
CN-100-12	0.004	600	3/8	1 1/4
CN-100-13	0.005	600	3/8	1 1/4
CN-100-14	0.006	600	3/8	1 1/4
CN-100-15	0.01	600	3/8	1 1/4
CN-100-16	0.015	600	3/8	1 1/4
CN-100-17	0.022	600	7/16	1 1/4
CN-100-18	0.025	600	7/16	1 1/4
CN-100-19	0.03	600	7/16	1 1/4
CN-100-20	0.04	600	1/2	1 1/2
CN-100-21	0.05	600	1/2	1 1/2
CN-100-22	0.10	600	5/8	1 7/8
CN-100-23	0.25	600	3/4	2 1/4
CN-100-24	0.50	600	1	2 1/2
CN-100-25	0.20	400	5/8	1 7/8

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		THE TECHNICAL MATERIEL CORP. MAMARONECK. NEW YORK	E
	STOCK SIZE	Capacitor, Fixed, Film Dielectric	
	MATERIAL		
	HEAT TREAT. SPEC.		
	FINISH & SPEC. NO.		
	CHECKER	ENG. APP.	
	DATE	CH. NO.	
	SCALE		
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES		
	TOLERANCES	FRACTIONS	
	± .05	± 1/64	
	± .01	ANGLES	
	± .005	± 0° 30'	

STANDARD DRAWING

CN-111 C

TMC PART NO.	CAPACITY (mfd.)	VOLTAGE (V.DC)	CASE SIZE		MFG NO.
			DIA.	Length	
CN-111-1	.004	200	.217	.473	P95ZN1
2	.005	200	.217	.473	P95ZN2
3	.01	200	.217	.473	P95ZN3
4	.02	200	.217	.610	P95ZNA
5	.04	200	.256	.610	P95ZNG
6	.002	400	.217	.473	P95ZNB
7	.003	400	.217	.473	P95ZNA
8	.008	400	DELETED		
9	.01	400	.256	.610	P95ZN11
10	.0005	600	.217	.473	P95ZN12
11	.0008	600	DELETED		
12	.001	600	.217	.473	P95ZN18
13	.002	600	.256	.610	P95ZNA
14	.0022	600	DELETED		
15	.0047	600	DELETED		
16	.005	600	.256	.610	P95ZN22
CN-111-17	.0068	600	DELETED		



SPECS.
 CAP. TOL: ±20%
 OPER. TEMP: -55°C TO +125°C
 CAP: MEASURED @ 100 cps @25°C
 POWER FACTOR: 1.5% OR LOWER @ 1000cps, 25°C
 INSULATION RESISTANCE: AFTER 2 MIN. @ 500VDC OR RATED VOLTAGE, 25000 MEGOHM MIN @25°C
 100 MEGOHM MIN @85°C
 5 MEGOHM MIN @125°C
 DIELECTRIC STRENGTH: 2 TIMES RATED VOLTAGE FOR 1 MIN. @25°C
 LEADS: HOT TINNED

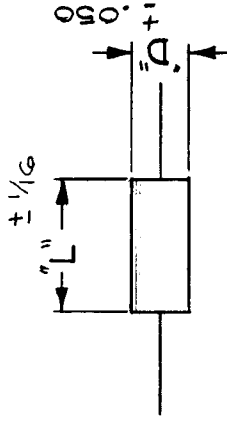
REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
C 1	1426	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
B 1	3908	CAPACITOR, FIXED, METALLIZED PAPER (Min.)	
A 1	3570		
ISSUE ITEM	CHANGED FROM		
TOLERANCES			
DEC. DIM. ±			
FRAC. DIM. ±			
ANGULAR DIM. ±			
6 11 6F	1-16-61	11-23-60	SCALE: S401-93
MFG N°S Added	CH. NO. DRAFTS	DATE	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES
MFG NO ADDED TO CN-111-5	3570	11-23-60	
CHANGED FROM	3570	11-23-60	
16 8/15/57	AWB	16 8/15/57	TYPE & TEMPER
AWB	AWB	AWB	HEAT TREAT. SPEC.
AWB	AWB	AWB	DRAWN
AWB	AWB	AWB	CHECKED
AWB	AWB	AWB	FINAL APPROVAL
AWB	AWB	AWB	ELEC. DES. APP. MECH. DES. APP.
AWB	AWB	AWB	FINISH & SPEC. NO.
AWB	AWB	AWB	CN-111
AWB	AWB	AWB	C

STANDARD DRAWING

REQ. PER UNIT	MODEL	USED ON ASSY. NO.	DATE
	SBE-3		4.12.61

CN 113 B

TMC PART NO.	MFGR. PART NO.	CAPACITY IN JUF	CAP. TOL.	VOLTAGE WVDC	SIZE
CN 113-1	25-503D	.05	± 5%	400	DIA. .290 LENGTH 11/16



SPECIFICATIONS

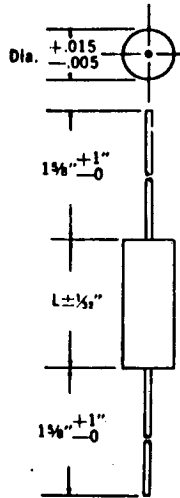
OPERATING TEMP. RANGE: -55 TO +85°C AT RATED VOLTAGE; TO 125°C WITH 50% DERATING
 DISSIPATION FACTOR: 1.0% AT 1 KC ± 20 CPS AT 25°C, MAXIMUM.
 DIELECTRIC STRENGTH: 200% RATED VOLTAGE AT 25°C FOR 60 SECONDS THRU LIMITING RESISTOR OF 100 OHM/VOLT.

CASE: EPOXY RESIN.

LIFE TEST: 125% RATED VOLTAGE AT 85°C FOR 250 HRS.

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
B		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
A		CAPACITOR, FIXED MYLAR DIELECTRIC	
ISSUE ITEM	CHANGED FROM		
	DATE	CH. NO.	DRAFTS
	5/26/64	1134	A.M. @
	4467	18035	HEC JFB cph
	ADD. LIFE TEST		
	ADD. "L" & "D" TOLS.		
	COMPLETELY REVISED SPECIFICATIONS		
	MFGR. P/N WAS TYPE 20, 0.5, 5% 400V		
	SCALE: S401-87 (TYPE 25)		
	MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES		
DEC. DIM. ±			
FRAC. DIM. ±			
ANGULAR DIM. ±			
	TYPE & TEMPER	HEAT TREAT. SPEC.	CHECKED
			FINAL APPROVAL
			CN 113 B

APPLICATION			REVISIONS						
QTY	MODEL USED ON	ASS'Y NO.	LTR	DESCRIPTION	DATE	E.M.N.NO	DRAFT	CHKD	APPD
	RSU-1		Ø	ORIG RELEASE FOR PROD	1/23/73		A		



Dim. Include Solder Eyelet

LEADS: 24 gauge: .175 and .195 Dia.;
22 gauge: .235 and .312 Dia.; 20
gauge: .400 Dia. and larger case sizes.

Part No.	Cap in MFDS	Dia.	L
F409A103	.01	.175	1 3/4"
F409A123	.012	.175	1 3/4"
F409A153	.015	.175	1 3/4"
F409A183	.018	.175	1 3/4"
F409A223	.022	.175	1 3/4"
F409A273	.027	.175	1 3/4"
F409A333	.033	.175	1 3/4"
F409A473	.047	.175	1 3/4"
F409A563	.056	.175	1 3/4"
F409A683	.068	.195	1 3/4"
F409A823	.082	.195	1 3/4"
F409A104	.1	.195	1 3/4"
F409A124	.12	.235	1 3/4"
F409A154	.15	.235	1 3/4"
F409A184	.18	.312	1 3/4"
F409A224	.22	.312	1 3/4"
F409A274	.27	.312	1 3/4"
F409A334	.33	.312	1 3/4"
F409A474	.47	.400	1 3/4"
*F409-001	.56	.400	1 3/4"
F409A564	.56	.312	1 3/4"
*F409-002	.68	.500	1 3/4"
F409A684	.68	.400	1 3/4"
*F409-003	.82	.500	1 3/4"
F409A824	.82	.400	1 3/4"
*F409-004	1.0	.562	1 3/4"
F409A105	1.0	.400	1 3/4"
*F409-005	1.2	.562	1 3/4"
F409A125	1.2	.500	1 3/4"
F409A155	1.5	.500	1 3/4"
F409A205	2.0	.562	1 3/4"
F409A305	3.0	.670	1 3/4"

*Special No. assigned to alternate sizes for same cap. valves.

SPECIFICATIONS

CAPACITANCE AND TOLERANCE $\pm 3\%$

The capacitance limits at +25°C are determined by the specified tolerance. Capacitance is measured at or referred to a frequency of 1000 Hz.

DISSIPATION FACTOR

The dissipation factor at +25°C is less than 0.3% at 1000 Hz.

INSULATION RESISTANCE

The charging potential is equal to the specified operating voltage for given temperature. The electrification time is two minutes.

TMC P/N TO BE IN THE FOLLOWING FORM

CN 127 A 1R0

5401-112

BASIC DWG NO.

DENOTES
A=50 WVDC
B=100 WVDC

CAPACITANCE IN UF
R INDICATES DEC. POINT.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES AND INCLUDE CHEMICALLY APPLIED OR PLATED FINISHES	REQ'D	ITEM	PART NUMBER	DESCRIPTION	SYM.		
DECIMALS X ± .05 .XX ± .01 .XXX ± .005 FRACTIONS 1/64 ANGLES 0°-30°	LIST OF MATERIAL						
MATERIAL	POSE FINAL APPROVAL 		DATE	THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK CAPACITOR FIXED POLYCARBONATE			
FINISH	MECH. DES. 		DATE				
	ELECT. DES. 		DATE				
	CHECKED 		DATE				
	DRAWN GE		DATE	1/17/73			
NOTICE TO PERSONS RECEIVING THIS DRAWING THE TECHNICAL MATERIEL CORPORATION claims proprietary right in the material disclosed hereon. This drawing is issued in confidence for engineering information only and may not be reproduced or used to manufacture anything shown hereon without permission from THE TECHNICAL MATERIEL CORPORATION to the user. This drawing is loaned for mutual assistance and is subject to recall at any time.				SIZE A	CODE IDENT. NO. 82679	DWG NO. CN 127	ISSUE Ø
				SCALE		SHEET	OF

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

STANDARD DRAWING

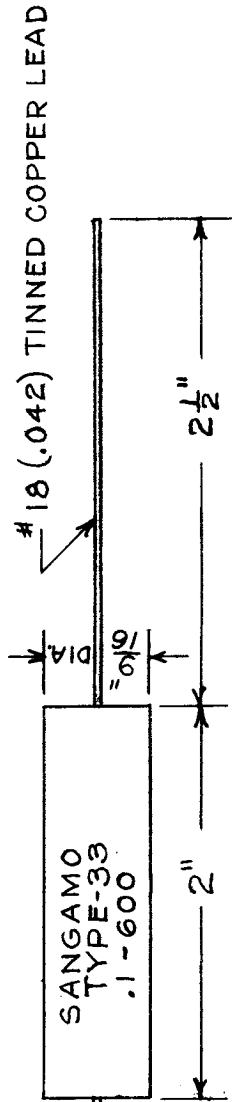
CN-10001

USED ON

MODEL PROJECT NO. ASSY. NO. DATE

AMC-6B

11-1-55



CAPACITY 0.1 μFD. 600 VOLTS. TOLERANCE ±10%

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 MAMARONECK, NEW YORK

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
SCALE FULL SIZE							
TOLERANCES							
DEC. DIM.	±						
FRAC. DIM.	±						
OTHERS	ANGULAR DIM. ±						
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		TMC (Canada) LIMITED OTTAWA ONTARIO	
		CAPACITOR, FIXED	
		MOULDED PLASTIC	
		J.W.T.	
		DRAWN	ELEC. DES. APP. MECH. DES. APP.
		CHECKED	FINAL APPROVAL
			CN-10001

STANDARD DRAWING

CN10002 A

IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.

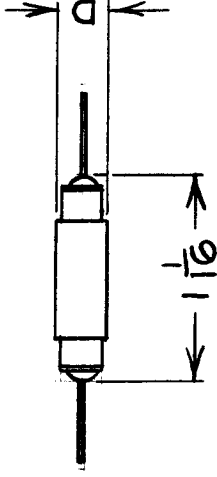
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON

MODEL PROJECT NO. ASS'Y. NO. DATE

AMCG-5 CE 646 CA10074 JUNE 15 1959

TMC PART #	MFR.	PART#	CAPACITANCE	TOL	VOLTS	D
CN10002-1	C295AA/C1K	1000	μuf	$\pm 5\%$	700	1/4
CN10002-2	" — /C1K3	1300	"	$\pm 5\%$	700	17/64
CN10002-3	C295AA/C10K	10,000	"	$\pm 2\%$	50	1/4
CN10002-4	" — /C27K	27,000	"	$\pm 2\%$	50	21/64



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MAMARONECK, NEW YORK

ISSUE ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS CHECKER	ENG. APP.
A	MFR. PIN CHG. WAS PHILLIPS P.I.N. MFR. PIN UPDATED: 5-10045-31 APP.	4/20/65	13560	201	98%

TOLERANCES

DEC. DIM. \pm
FRAC. DIM. \pm 1/64
ANGULAR DIM. \pm

SCALE NTS

DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.

REF: S-10045-31

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		TMC (Canada) LIMITED OTTAWA ONTARIO	
		CAPACITOR	
		STOCK SIZE	
		MATERIAL	
		WEIGHT PER PC.	
		TYPE & TEMPER	
		DRAWN	DCM
		ELEC. DES. APP.	M. Ka.
		CHECKED	1/20/65
		HEAT TREAT. SPEC.	
		FINISH & SPEC. NO.	CN10002 A

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

STANDARD DRAWING

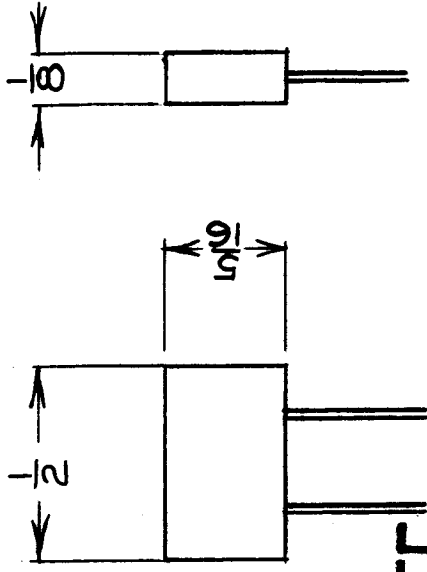
CN10003 B

USED ON

PROJECT NO. ASSY. NO. DATE

AMC6-5 CEG46 CA100074 JUNE 15 1959

TMC PART NO	CAPACITANCE	TOL.	CHAR.	TYPE
CN10003-1	790 μ mf	$\pm 1\%$	"F"	22A
CN10003-2	960 μ mf	$\pm 1\%$	"F"	22A
CN10003-3	850 μ mf	$\pm 1\%$	"F"	22A



OBSOLETE

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REPLACED BY

NOTE: USE CM200 SERIES.

REF: CORNEL DUBILIER

Property of:
THE TECHNICAL MATERIEL CORPORATION
MAMARONECK, NEW YORK

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		TMC (Canada) LIMITED OTTAWA ONTARIO	
		CAPACITOR	
		(CORNEL DUBILIER)	
		DCM	
		DRAWN	ELEC. DES. APP. MECH. DES. APP.
		CHECKED	FINAL APPROVAL

B	OBSOLETE	11' 15' 5203	gfo
A	CN10003-3 ADDED	DEC 59	DM
ISSUE ITEM	CHANGED FROM	DATE	CN. NO. DRAFTS CHECKER ENG. APP.
TOLERANCES			
SCALE NTS			
ALL OTHERS	DEC. DIM. \pm —	DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.	
	FRAC. DIM. \pm —		
	ANGULAR DIM. \pm —		

STANDARD DRAWING

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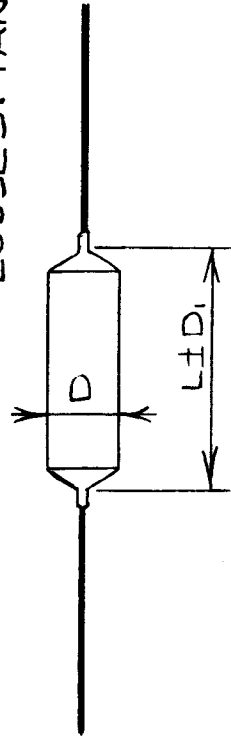
CN10005 A

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES

USED ON
MODEL PROJECT NO. ASS'Y. NO. DATE
MAY. 20/60

T.M.C. PT. NO.	MFR. PT. NO.	$C_n \pm 10\%$	MAX VDC	WKS @ 85°C	D M.M. MAX	L M.M. MAX	D' M.M. MAX
CN-10005-1	C296AC/A100K	0.1	400VDC	300V	15	32	0.8
CN-10005-2	C296AC/A270K	0.27	—	—	16.5	32	0.8
CN-10005-3	C296AC/A470K	0.47	—	—	19	32	0.8

TEST VOLTAGE: 375VDC (1 SEC) FOR MAX. W G.VDC. OF 125 " 1200 " 400
 AMBIENT TEMPERATURES: -40 TO +85°C.
 INSULATION RESISTANCE @ 20°C:
 $R = 50,000 M\Omega (C_n \geq 0.33 \mu f)$ MIN.
 $RC = 16,500 SEC (C_n > 0.33 \mu f)$ MIN.
 BEYOND 20°C, $\Delta R = -50\% / 10^\circ C$
 LOSSES: $TAN \delta = 60 \times 10^{-4} @ 1 KC/S$ MAX.



ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.
A	REDRAWN		1960		JPC		
TOLERANCES							
SCALE $\leq 100/45 - 1$							
DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED							
DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.							
ALL OTHERS	DEC. DIM. \pm FRAC. DIM. \pm ANGULAR DIM. \pm						

REQ. ITEM	PART NO.	DESCRIPTION	SYMBOL
		TMC (Canada) LIMITED OTTAWA	
		TUBULAR POLYESTER	
		CAPACITORS	
		JPC	
		DRAWN	ELEC. DES. APP. <i>R.H. Jones</i>
			MECH. DES. APP.
			FINAL APPROVAL
			CN10005 A

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.	REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
<p>MFGR: S401-107 PART NO: PVC-602</p>												
AMC 20	020/66			A10376			9 NOV 65				TMC (Canada) LIMITED OTTAWA ONTARIO	
MODEL		PROJECT NO.		ASS'Y. NO.		DATE		STOCK SIZE				
MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES		TOLERANCES		IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.		SCALE		MATERIAL		WEIGHT PER PC.		
ALL OTHERS		DEC. DIM. ±		DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED		TYPE & TEMPER		TYPE & TEMPER		RD		
		FRAC. DIM. ±		DRILL, PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.		HEAT TREAT. SPEC.		HEAT TREAT. SPEC.		.2 u f , 600 WVDC		
		ANGULAR DIM. ±				FINISH & SPEC. NO.		FINISH & SPEC. NO.		CN 10007		
								DRAWN		ELEC. DES. AP.		MECH. DES. APP.
								CHECKED		FINAL APPROVAL		

ISSUE	ITEM	CHANGED FROM	DATE	CN. NO.	DRAFTS	CHECKER	ENG. APP.	REQ.	ITEM	PART NO.	DESCRIPTION	SYMBOL
0		PROD RELEASE	12 MAR 73		C.C.							

T.M.C. PART NO.	MANUFACTURER'S PART NO.	CAPACITANCE	"D"	"L"
CN 10008	MCR 2522	.022	.185	.562

MANUFACTURER : CORNELL - DUBILIER

MODEL	PROJECT NO.	DATE	12 MAR 73
T.M.C. (Canada) LIMITED OTTAWA		STOCK SIZE	
CAPACITOR,		MATERIAL	WEIGHT PER PC.
METALLIZED FILM		TYPE & TEMPER	
C.CHARLES		HEAT TREAT. SPEC.	
DRAWN		FINISH & SPEC. NO.	
ELEC. DES. APP.			
MECH. DES. APP.			
CHECKED		FINAL APPROVAL	
			CN10008

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND DEVIATIONS WILL BE CAUSE FOR REJECTION. REMOVE ALL BURRS AND SHARP EDGES	IF IT IS FOUND DESIRABLE TO CHANGE ANY TOLERANCE OR OTHER DETAIL SPECIFIED ON THIS DRAWING NOTIFY THE PURCHASER PROMPTLY.
TOLERANCES	
DEC. DIM. ± .05	SCALE 2:1
PRAC. DIM. ± 1/64	DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED
ANGULAR DIM. ± 0° 30'	DRILL: PUNCH, COMMERCIAL STOCK SIZES AND MANUFACTURERS TOLERANCES ARE NOT INCLUDED.