

TMC PART NO.	WVDC	CAPACITANCE pF	TOLERANCE	MAX O.A. LENGTH	MAX DIA	TMC PART NO.	WVDC	CAP pF	TOL	MAX O.A. LENGTH	MAX DIA
CX104-1	C	47.000	B	1-1/2	9/16	CX104-88	A	3.400	D	1	5/16
-2	C	220.000	B	2-1/4	3/4	-89	A	5.000	D	1	5/16
-3	B	31.300	A	1-1/4	13/32	-90	A	8.890	D	1	5/16
-4	B	25.300	A	1-1/4	13/32	-91	A	17.250	D	1	5/16
-5	B	20.900	A	1	13/32	-92	A	25.560	D	1	3/8
-6	B	17.600	A	1	5/16	-93	A	46.800	D	1	7/16
-7	B	15.000	A	1	5/16	-94	A	25.700	D	1	3/8
-8	B	12.900	A	1	5/16						
-9	B	11.300	A	1	5/16						
-10	B	9.890	A	1	5/16						
-11	B	8.760	A	1	5/16						
-12	B	7.020	A	1	5/16						
-13	B	73.500	A	1-1/2	13/32						
-14	B	55.500	A	1-1/2	13/32						
-15	B	43.400	A	1-1/2	13/32						
-16	B	34.400	A	1-1/2	13/32						
-17	B	27.700	A	1-1/4	13/32						
-18	B	23.000	A	1	13/32						
-19	B	18.600	A	1	13/32						
-20	B	15.800	A	1	5/16						
-21	B	13.300	A	1	5/16						
-22	B	117.000	A	1-1/2	13/32						
-23	B	30.000	B	1-1/4	13/32						
-24	B	24.000	B	1	13/32						
-25	B	7.820	A	1	5/16						
-26	B	20.100	B	1	13/32						
-27	B	16.800	B	1	5/16						
-28	B	14.500	B	1	5/16						
-29	B	12.400	B	1	5/16						
-30	B	10.800	B	1	5/16						
-31	B	9.420	B	1	5/16						
-32	B	8.290	B	1	5/16						
-33	B	7.340	B	1	5/16						
-34	C	10.000	A	1-1/4	13/32						
-35	C	4.700	A	1	5/16						
-36	C	20.000	A	1	13/32						
-37	E	100.000	A	1-13/16	1						
-38	C	8.000	A	1-1/4	5/16						
-39	C	8.600	A	1-1/4	5/16						
-40	C	9.400	A	1-1/4	5/16						
-41	C	10.200	A	1-1/4	5/16						
-42	C	11.100	A	1-1/4	5/16						
-43	C	12.500	A	1-1/4	5/16						
-44	C	13.900	A	1-1/4	5/16						
-45	C	14.500	A	1-1/4	5/16						
-46	C	7.300	A	1-1/4	5/16						
-47	C	2.700	A	1-1/4	5/16						
-48	C	3.000	A	1-1/4	5/16						
-49	C	3.300	A	1-1/4	5/16						
-50	C	3.500	A	1-1/4	5/16						
-51	C	3.750	A	1-1/4	5/16						
-52	C	4.250	A	1-1/4	5/16						
-53	C	4.500	A	1-1/4	5/16						
-54	C	5.000	A	1-1/4	5/16						
-55	C	5.400	A	1-1/4	5/16						
-56	C	53.000	A	1-1/4	9/16						
-57	C	142.000	A	1-1/2	5/8						
-58	A	100.000	D	1	13/32						
-59	A	50.965	D	1	13/32						
-60	A	43.019	D	1	5/16						
-61	A	39.020	D	1	5/16						
-62	A	36.209	D	1	5/16						
-63	A	33.990	D	1	5/16						
-64	A	40.675	D	1	5/16						
-65	A	36.631	D	1	5/16						
-66	A	35.894	D	1	5/16						
-67	A	20.790	D	1	5/16						
-68	A	28.297	D	1	5/16						
-69	A	35.181	D	1	5/16						
-70	A	45.840	D	1	5/16						
-71	A	38.981	D	1	5/16						
-72	A	26.560	D	1	5/16						
-73	A	24.430	D	1	5/16						
-74	A	27.824	D	1	5/16						
-75	A	30.728	D	1	5/16						
-76	A	13.270	D	1	5/16						
-77	A	10.000	A	7/8	1/4						
-78	A	84.260	A	1	7/16						
-79	A	105.500	A	1	7/16						
-80	A	100.000	A	1	7/16						
-81	A	56.200	A	1-1/2	7/16						
-82	A	95.300	A	1	7/16						
-83	A	37.939	D	1	5/16						
-84	A	31.411	D	1	5/16						
-85	A	25.092	D	1	5/16						
-86	A	34.760	D	1	5/16						
-87	A	13.570	D	1	5/16						

STAMP TMC PT. NO. IN BLACK
 GOTHIC AS SHOWN
 CX104-XX
 SLEEVE TO EE
 100(MIN) IN LIP
 1/16 IN DIA

REVISIONS							
SYM	ZONE	DESCRIPTION	DATE	E.M.N.O.	DRAFT	CHKD	APPD
S		REDRAWN FROM 4 SIZE	11.1.66	17026	WJW	YTB	JC
T		ADD CX104-94	5/16/67	118222	WJW	YTB	TRH

ENGINEERING SPECIFICATIONS

TEST VOLTAGE:
 WITHSTAND 200% OF RATED VOLTAGE FOR 1 MINUTE AT 25°C

LIFE & ENVIRONMENTAL REQUIREMENTS: PER CHARACTERISTIC "E" OF MIL C-25

DISSIPATION FACTOR: LESS THAN .05% AT 1000 CPS AND 25°C UP TO 1.0 mfd AND LESS THAN .2% FOR VALUES OVER 1. mfd

INSULATION RESISTANCE:
 THE MINIMUM INSULATION RESISTANCE WHEN MEASURED WITH AN APPLIED POTENTIAL OF 100 VOLTS AND AN ELECTRIFICATION TIME OF TWO MINUTES AT 25°C SHALL BE AS FOLLOWS: 500,000 MEGOHMS X mfd. FOR CAPACITANCE VALUES FROM 10 mfd TO .33 mfd. FOR VALUES LESS THAN .33 mfd, INSULATION RESISTANCE TO BE 1,500,000 MEGOHMS MIN BUT NEED NOT EXCEED 10,000,000 MEGOHMS.

CAPACITOR "Q": "Q" IS GREATER THAN 2000 UP TO 1 MEGACYCLE AT 25°C

CAPACITANCE STABILITY: LESS THAN .25% DRIFT PER YEAR

TEMPERATURE COEFFICIENT OF CAPACITANCE: -100 PPM/°C ±30 PPM/°C

OPERATING TEMPERATURE RANGE: -65°C TO +85°C

TYPE: HERMETICALLY SEALED, TUBULAR METAL CASE, PLASTIC SLEEVING

LEAD SPECIFICATIONS: STANDARD LEAD LENGTH IS 2-1/4" MIN WITH AWG #20

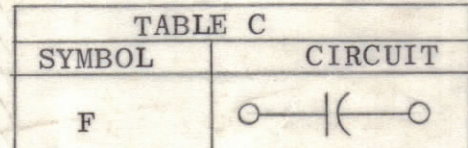
CAPACITANCE: THE NOMINAL CAPACITANCE VALUE IS TO BE STAMPED ON THE CAPACITOR IN mfd

DIELECTRIC ABSORPTION:
 AT 25°C-LESS THAN .05% OF THE INITIAL 100 VOLTS CHARGED. VOLTAGE SHALL REAPPEAR AFTER CHARGING FOR 1/2 HOUR AND IMMEDIATELY DISCHARGING FOR 10 SECONDS THROUGH 1 OHM RESISTOR. ABSORPTION VOLTAGE SHOULD BE READ. 5 MINUTES BUT NOT LATER THAN 10 MINUTES AFTER REMOVING SHORTING BAR.

PERCENT DIELECTRIC ABSORPTION = $\frac{V \text{ ABSORP}}{V \text{ CHARGE}} \times 100$

DC WORKING VOLTAGE	SYMBOL
100	B
200	C
400	E
30	A

TOL SYMBOL	TOLERANCE
B	±2%
A	±1%
D	±0.5%



FOR PURCHASING ONLY
 S401-112
 S401-146
 S401-81

MAXIMUM ALLOWABLE TOLERANCES HAVE BEEN DETERMINED AND ANY DEVIATIONS WILL BE CAUSE FOR REJECTION.

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
 TOLERANCES ON FRACTIONS DECIMALS ANGLES
 ±1/64 ±.005 ±1/2°

MATERIAL

FINISH

QTY REQ	ITEM	PART NO.	DESCRIPTION	SYMBOL	
BILL OF MATERIAL					
FINAL APPROVAL <i>M. Hay</i>		DATE <i>11/13/66</i>		THE TECHNICAL MATERIEL CORP. MAMARONECK, NEW YORK	
MECH. DES.		DATE			
ELECT. DES. <i>O.P.</i>		DATE			
CHECKED <i>J. DEC.</i>		DATE			
DRAWN <i>TORRILLO</i>		DATE		CAPACITOR, FIXED, PLASTIC DIELECTRIC POLYSTYRENE	
APPROVED FOR BUSHIPS		CODE	SIZE		DWG. NO.
CONTRACT NO.		82679	C		CX104
		SCALE	SHEET OF		
				ISSUE T	