
Benefits

		EIA	296
M	MIL D 1285		
	MIL P F 39003 (C	21	

Ordering Information

T	262	C	106	K	050	C	S	
Capacitor Class	Series	Case Size	Capacitance C (F)	Capacitance Tolerance	(DC)	F	Termination F	
T = Tantalum	H Sealed Axial Capacitor	C D	F represent of zeros.	J = $\pm 5\%$ K = $\pm 10\%$ M = $\pm 20\%$	006 = 6 010 = 10 015 = 15 020 = 20 035 = 35 050 = 50	G : B = 0.1%/ C = 0.01%/ D = 0.001%/ E : M = 1%/ P = 0.1%/ = 0.01%/ = 0.001%/	S = Standard	All capacitors are sleeved 0100 = 7200 = & 7293 & 7443 = Ammo 4251 = 10 , 55 & 85°C after Weibull 4252 = 10 , 55 & 85°C before Weibull

Ordering Information – T262 (CSR21 Style)

MIL product

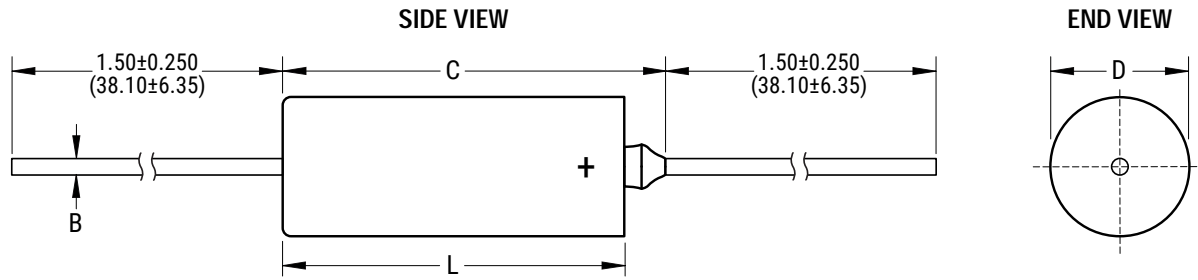
M39003	/09	3074	B
Capacitor Class		D N	Surge Option
M		F	B = C-4251
N	N	Level	C = C-4252

Orders should be entered by the military specification number, including the dash number and surge option letter (B or C).

Performance Characteristics

Item	Performance Characteristics
Operating Temperature	55 C 125 C
C	5.6 330 F 120 H /25 C
Capacitance Tolerance	J (5%), K (10%), M (20%)
	6 50
DF (120 H 25 C)	P N E
E I (100 H 25 C)	P N E
Leakage Current	P N E (+85 C 2/3 125 C)
F (MIL 39003, C 13)	A : (0.001%/) - E , D (0.001%/) G

Dimensions – Inches (Millimeters)



Case Size	Uninsulated		Insulated		B ±0.002 (0.05)	C Maximum
	D 0.005 (0.13)	L ±0.031 (0.79)	D 0.010 (0.25)	L ±0.031 (0.79)		
C	0.279 (7.09)	0.650 (16.51)	0.289 (7.34)	0.686 (17.42)	0.025 (0.64)	0.822 (20.88)
D	0.341 (8.66)	0.750 (19.05)	0.351 (8.92)	0.786 (19.96)	0.025 (0.64)	0.922 (23.42)

Table 1 – Ratings & Part Number Reference

Rated Voltage	Rated Cap	Case Size Code	DC Leakage	DF	ESR	Ripple Current	MIL-PRF-39003/09 (CSR21) Capacitors														
							Dash Number Reference														KEMET Equivalent Military
							Failure Rate Level (%/1,000 Hours)														
							MIL-PRF-39003/9D							MIL-PRF-39003/9D							
							Exponential							Graded							
VDC	µF		µA at 25°C Max/5 Min	% at 25°C 120 Hz Max	Ω at 25°C 100 kHz Max	Arms at 25°C 40 kHz Max	M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1)	B (0.1)	C (0.01)	D (0.001)	Part Number						
6	150.0	C	4.5	10	0.065	3.3	0001	0101	0201	0301	5001	2001	3001	4001	262C157J006(1)						
6	150.0	C	4.5	10	0.065	3.3	0002	0102	0202	0302	5002	2002	3002	4002	262C157K006(1)						
6	150.0	C	4.5	10	0.065	3.3	0003	0103	0203	0303	5003	2003	3003	4003	262C157M006(1)						
6	180.0	C	5.5	10	0.060	3.4	0004	0104	0204	0304	5004	2004	3004	4004	262C187J006(1)						
6	180.0	C	5.5	10	0.060	3.4	0005	0105	0205	0305	5005	2005	3005	4005	262C187K006(1)						
6	270.0	D	6.5	10	0.050	4.1	0006	0106	0206	0306	5006	2006	3006	4006	262D277J006(1)						
6	270.0	D	6.5	10	0.050	4.1	0007	0107	0207	0307	5007	2007	3007	4007	262D277K006(1)						
6	330.0	D	7.5	12	0.045	4.3	0008	0108	0208	0308	5008	2008	3008	4008	262D337J006(1)						
6	330.0	D	7.5	12	0.045	4.3	0009	0109	0209	0309	5009	2009	3009	4009	262D337K006(1)						
6	330.0	D	7.5	12	0.045	4.3	0010	0110	0210	0310	5010	2010	3010	4010	262D337M006(1)						
10	82.0	C	4.0	8	0.085	2.9	0011	0111	0211	0311	5011	2011	3011	4011	262C826J010(1)						
10	82.0	C	4.0	8	0.085	2.9	0012	0112	0212	0312	5012	2012	3012	4012	262C826K010(1)						
10	100.0	C	5.0	8	0.075	3.0	0013	0113	0213	0313	5013	2013	3013	4013	262C107J010(1)						
10	100.0	C	5.0	8	0.075	3.0	0014	0114	0214	0314	5014	2014	3014	4014	262C107K010(1)						
10	100.0	C	5.0	8	0.075	3.0	0015	0115	0215	0315	5015	2015	3015	4015	262C107M010(1)						
10	120.0	C	6.0	8	0.070	3.2	0016	0116	0216	0316	5016	2016	3016	4016	262C127J010(1)						
10	120.0	C	6.0	8	0.070	3.2	0017	0117	0217	0317	5017	2017	3017	4017	262C127K010(1)						
10	180.0	D	9.0	8	0.060	3.7	0018	0118	0218	0318	5018	2018	3018	4018	262D187J010(1)						
10	180.0	D	9.0	8	0.060	3.7	0019	0119	0219	0319	5019	2019	3019	4019	262D187K010(1)						
10	220.0	D	10.0	10	0.055	3.9	0020	0120	0220	0320	5020	2020	3020	4020	262D227J010(1)						
10	220.0	D	10.0	10	0.055	3.9	0021	0121	0221	0321	5021	2021	3021	4021	262D227K010(1)						
10	220.0	D	10.0	10	0.055	3.9	0022	0122	0222	0322	5022	2022	3022	4022	262D227M010(1)						
15	56.0	C	4.0	6	0.100	2.6	0023	0123	0223	0323	5023	2023	3023	4023	262C566J015(1)						
15	56.0	C	4.0	6	0.100	2.6	0024	0124	0224	0324	5024	2024	3024	4024	262C566K015(1)						
15	68.0	C	5.0	6	0.095	2.7	0025	0125	0225	0325	5025	2025	3025	4025	262C686J015(1)						
15	68.0	C	5.0	6	0.095	2.7	0026	0126	0226	0326	5026	2026	3026	4026	262C686K015(1)						
15	68.0	C	5.0	6	0.095	2.7	0027	0127	0227	0327	5027	2027	3027	4027	262C686M015(1)						
15	120.0	D	9.0	8	0.070	3.5	0028	0128	0228	0328	5028	2028	3028	4028	262D127J015(1)						
15	120.0	D	9.0	8	0.070	3.5	0029	0129	0229	0329	5029	2029	3029	4029	262D127K015(1)						
15	150.0	D	10.0	8	0.065	3.6	0030	0130	0230	0330	5030	2030	3030	4030	262D157J015(1)						
15	150.0	D	10.0	8	0.065	3.6	0031	0131	0231	0331	5031	2031	3031	4031	262D157K015(1)						
15	150.0	D	10.0	8	0.065	3.6	0032	0132	0232	0332	5032	2032	3032	4032	262D157M015(1)						
20	27.0	C	2.5	5	0.145	2.2	0033	0133	0233	0333	5033	2033	3033	4033	262C276J020(1)						
20	27.0	C	2.5	5	0.145	2.2	0034	0134	0234	0334	5034	2034	3034	4034	262C276K020(1)						
20	33.0	C	3.5	5	0.130	2.3	0035	0135	0235	0335	5035	2035	3035	4035	262C336J020(1)						
20	33.0	C	3.5	5	0.130	2.3	0036	0136	0236	0336	5036	2036	3036	4036	262C336K020(1)						
20	33.0	C	3.5	5	0.130	2.3	0037	0137	0237	0337	5037	2037	3037	4037	262C336M020(1)						
20	39.0	C	4.0	5	0.120	2.4	0038	0138	0238	0338	5038	2038	3038	4038	262C396J020(1)						
20	39.0	C	4.0	5	0.120	2.4	0039	0139	0239	0339	5039	2039	3039	4039	262C396K020(1)						
20	47.0	C	4.5	6	0.110	2.5	0040	0140	0240	0340	5040	2040	3040	4040	262C476J020(1)						
20	47.0	C	4.5	6	0.110	2.5	0041	0141	0241	0341	5041	2041	3041	4041	262C476K020(1)						
20	47.0	C	4.5	6	0.110	2.5	0042	0142	0242	0342	5042	2042	3042	4042	262C476M020(1)						
20	56.0	D	5.5	6	0.100	2.9	0043	0143	0243	0343	5043	2043	3043	4043	262D566J020(1)						
20	56.0	D	5.5	6	0.100	2.9	0044	0144	0244	0344	5044	2044	3044	4044	262D566K020(1)						
20	68.0	D	7.0	6	0.095	3.0	0045	0145	0245	0345	5045	2045	3045	4045	262D686J020(1)						
VDC	µF	Case Size Code	µA at 25°C Max/5 Min	% at 25°C 120 Hz Max	Ω at 25°C 100 kHz Max	Arms at 25°C 40 kHz Max	M (1.0)	P (0.1)	R (0.01)	S (0.001)	G (1)	B (0.1)	C (0.01)	D (0.001)	Part Number						
Rated Voltage	Rated Cap	Case Size Code	DC Leakage	DF	ESR	Ripple Current	MIL-PRF-39003/09 (CSR21) Capacitors														

(1) To complete KEMET Part Number (T262), insert Graded failure rate - A for Not Applicable, B for 0.1%/k hours, C for 0.01%/k hours, D for 0.001%/k hours or G for 1%/k hours. Designates Reliability Level.

(2) To complete KEMET Part Number (T262), insert Exponential failure rate - M for 1%/k hours, P for 0.1%/k hours, R for 0.01%/k hours, or S for 0.001%/k hours. Designates reliability level.



Ripple Current/Ripple Voltage

P AC E
case size.

Temperature Compensation Multipliers for Maximum Power Dissipation		
25 C	85 C	125 C
1.00	0.90	0.40

T = Environmental Temperature

P AC
:

$$I(max) = Z \sqrt{P_{max}/R}$$

P max = maximum watts

R = ESR at specified frequency (ohms)

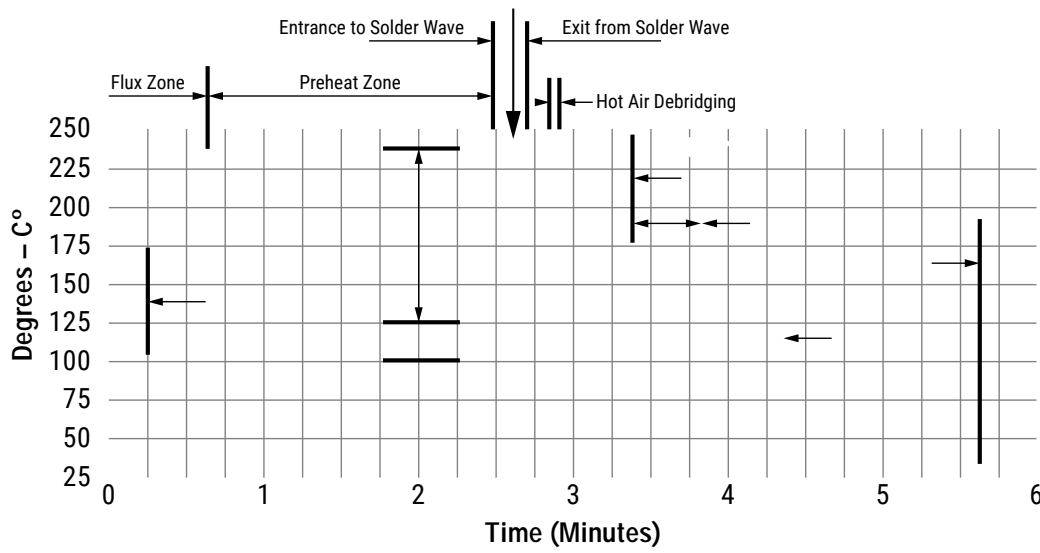
I = rms ripple current (amperes)

Z = capacitor impedance in ohms at the specified frequency

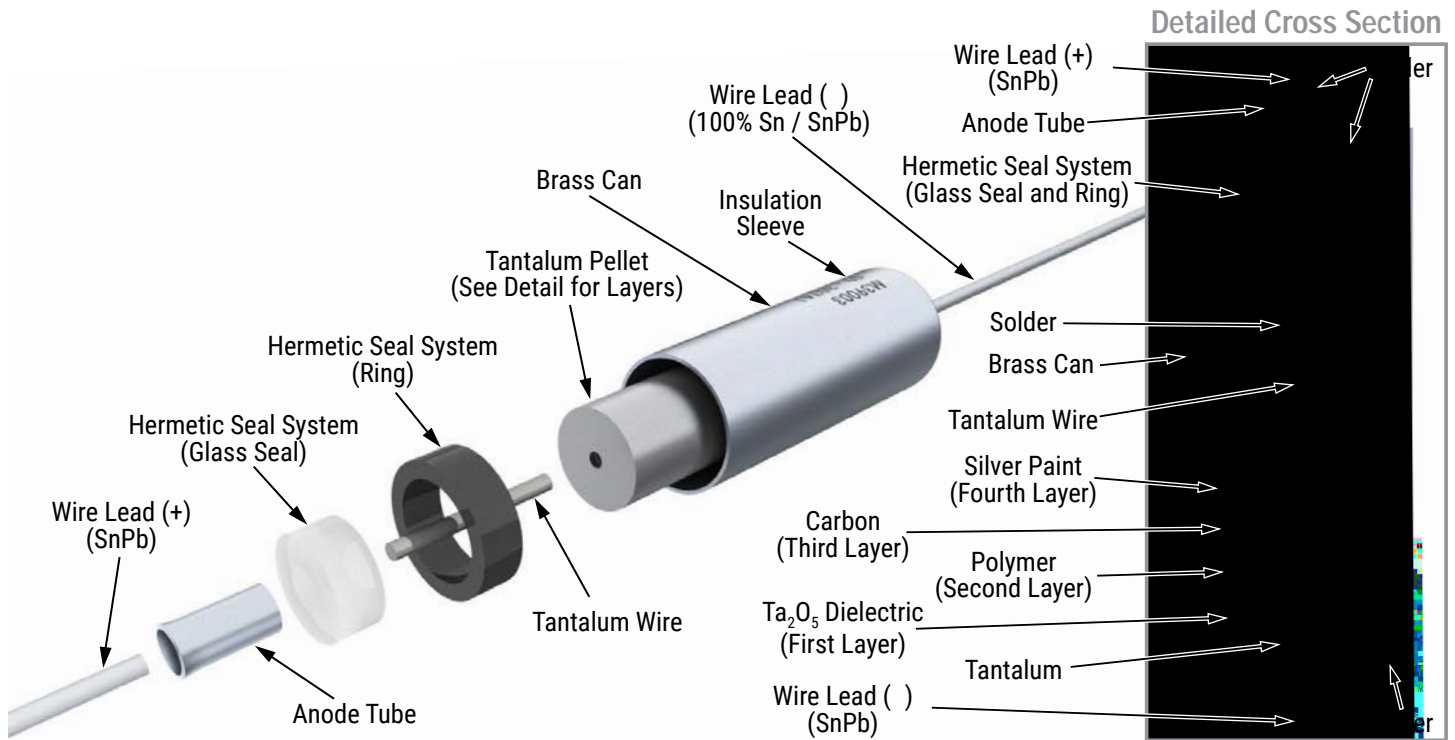
Case Size	Maximum Power Dissipation (P max)	T2XX
A	0.09	0.070
B	0.100	0.090
C	0.125	
D	0.180	

Maximum Power Dissipation: 25°C Ambient

Optimum Solder Wave Profile

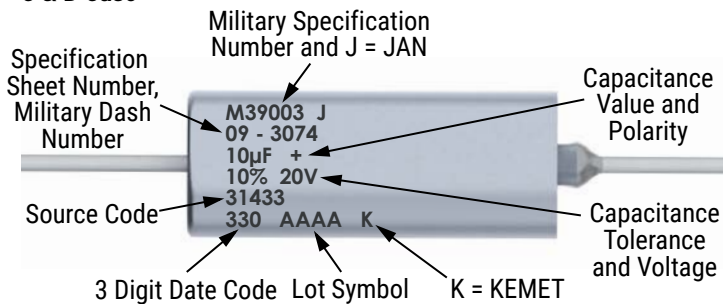


Construction



Capacitor Marking

C & D Case



Date Code	3 Digit	4 Digit
Year	5 = 2015	15 = 2015
	6 = 2016	16 = 2016
	7 = 2017	17 = 2017
	8 = 2018	18 = 2018
	9 = 2019	19 = 2019
Week	01 = 1 st	
	52 = 52 nd	

Storage

40 C . KEME
 60%

F

Tape & Reel Packaging Information

KEME

296E.

C

EIA

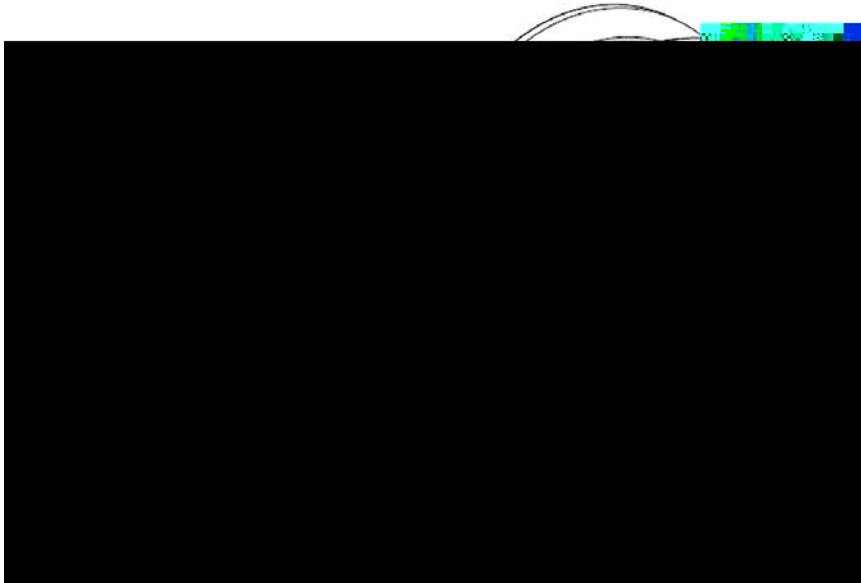


Table 2 – Packaging Quantity

Case Size	Standard Bulk Quantity	Standard Reel Quantity	Reel C-Spec	Ammo Pack Quantity	Ammo Pack C-Spec
A	150/Box	3,500	C 7200	1,500	C 7293
B	75/Box	2,500	C 7200	1,000	Class I
C	20/	500	C 7200	250	C 7442
D	20/	400	C 7200	250	Class II C 7443 Class III

Figure 2

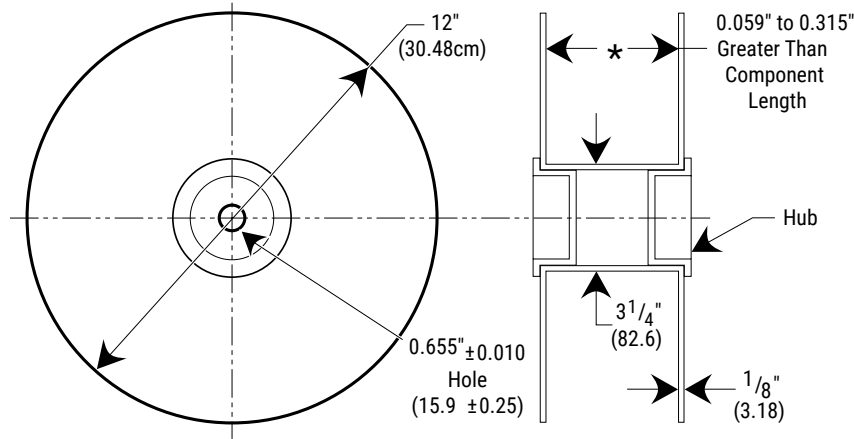


Figure 3

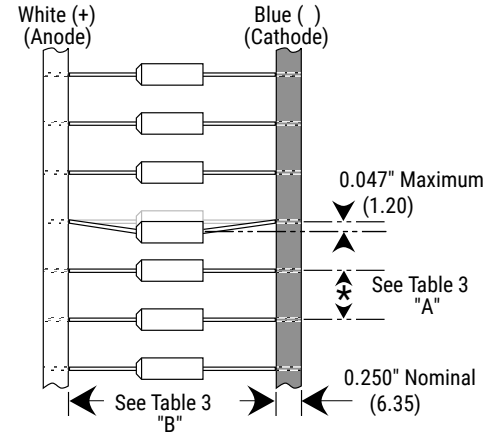


Table 3 – Tape Dimensions

Component Body Diameter		Component Pitch "A"	Inside Tape Spacing "B" ±1.5 mm (0.059")		
			I	II	III
0" (0)	0.197" (5)	0.200" (5)	2.062"	2.500"	2.874"
0.197" (5.01)	0.394" (10)	0.400 (10)	(52.4)	(63.5)	(73)

C F 3. K (50)
0.200" (70)
), 0.400" . C
0.031" (0.8) . C
0.031" (0.79) . F 1 2 KEME . A 36"
(91.5)

KEMET Electronic Corporation Sales Offices

F

Disclaimer

A
A I
KEME E C (KEME)
KEME
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