T368 UltraDip II



Overview

The KEMET T368 is manufactured according to the requiarements of MIL-PRF-49137, while maintaining all the performance characteristics of the UltraDip II. Performance characteristics meet or exceed the requirements of MIL-PRF-49137. In addition to the standard UltraDip II process testing, all products supplied to MIL-PRF-49137 are sampled

on a lot-by-lot basis for Group A and Group B inspection to ensure compliance. Product supplied per MIL-PRF-49137 also receives an additional post-process burn-in for at least two hours under accelerated voltage stress in excess of 125% of DC rated voltage. This post-process burn-in is equivalent to 200 hours under rated conditions.

Benefits

- · Taped and reeled per EIA Specification RS-468
- · Laser-marked case
- Qualified to MIL-PRF-49137
- Capacitance values of 5.6 to 330 μF
- Tolerances of ±10% and ±20%
- Voltage rating of 6 50 VDC
- · Case sizes: C, D

Applications

Typical applications include filtering, bypassing, coupling, blocking and RC timing circuits or other applications that can benefit from compactness.



Ordering Information

Т	368	С	106	M	035	Α	S	
Capacitor Class	Series	Case Size	Capacitance Code (pF)	Capacitance Tolerance	Rated Voltage (VDC)	Failure Rate	Termination Finish	Packaging
T = Tantalum	T368	C, D	First two digits represent significant figures. Third digit specifies number of zeros to follow.	M = ±20% K = ±10%	006 = 6 010 = 10 015 = 15 020 = 20 025 = 25 035 = 35 050 = 50	Not Applicable	S = Standard T = 100% Sn (tin)	Blank = Bulk 7301 = Tape & Reel 7303 = Tape & Reel 7305 = Ammo 7317 = Ammo

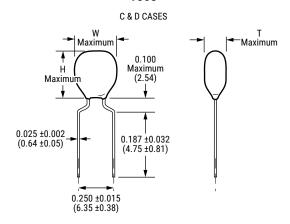


Performance Characteristics

Item	Performance Characteristics	
Operating Temperature	-55°C to 125°C	
Rated Capacitance Range	5.6 – 330 μF at 120 Hz/25°C	
Capacitance Tolerance	M tolerance ±20%, K tolerance ±10%	
Rated Voltage Range	6 – 50 V	
DF (120 Hz at 25°C)	Refer to Part Number Electrical Specification Table	
Leakage Current	Refer to Part Number Electrical Specification Table at rated voltage up to 85°C	

Dimensions - Millimeters (Inches)

T368



Case Size	T Maximum	W Maximum	H Maximum
С	0.250 (6.35)	0.400 (10.16)	0.420 (10.67)
D	0.250 (6.35)	0.460 (11.68)	0.520 (13.20)



Table 1 - Ratings and Part Number Reference

Case code VEMET Dart Number MAXIMUM/5 MINUTES	Rated Voltage	Rated Capacitance	Case Code Case Size	KEMET Part Number	DC Leakage	DF % at 25°C
6 100.0 C 7366C127(1006A(2) 5.8 8 8 150.0 C 7366C127(1006A(2) 5.8 8 8 150.0 C 7366C127(1006A(2) 5.8 8 8 150.0 C 7366C137(1006A(2) 7.2 8 8 8 8 150.0 D 7366C137(1006A(2) 7.2 8 8 8 8 150.0 D 7366C137(1006A(2) 7.2 8 8 8 8 7 150.0 D 7366C137(1006A(2) 7.2 8 8 8 8 7 150.0 D 7366C137(1006A(2) 7.2 8 8 8 8 7 150.0 D 7366C137(1006A(2) 7.0 0 8 7 150.0 D 7366C1	(V) 85°C	μF				
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6 180.0 D 7360137(1)006A(2) 8.6 8 6 270.0 D 736027(1)006A(2) 10.0 8 6 270.0 D 736037(1)006A(2) 10.0 8 6 270.0 D 736037(1)006A(2) 3.8 6 6 270.0 C 7360565(1)010A(2) 4.4 6 6 6 6 6 0 C 7360565(1)010A(2) 5.4 6 6 6 6 6 6 6 6 6						
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35 27.0 D T368D276(1)035A(2) 7.5 6 35 33.0 D T368D336(1)035A(2) 9.2 6 (V) 85°C μF Case Code κεμετ Νυμφος Μαχίμισης 5 Minutes 120 Hz Maximum/5 Minutes	35		С			
35 33.0 D T368D336(1)035A(2) 9.2 6 (V) 85°C μF Case Code κεμετ Part Number Maximum/5 Minutes 120 Hz Maximum						
(V) 85°C μF Case Code κΕΜΕΤ Part Number Μαχίπυμη/5 Minutes 120 Hz Maximun						
					μA at 25°C	120 Hz Maximum
Caca Ciza REMEI Fait Number	Rated Voltage			KEMET Part Number		DF % at 25°C

⁽¹⁾ To complete KEMET or military part number, insert M - 20%, K - $\pm 10\%$ or J - $\pm 5\%$ (Available on special order). Designates Capacitance tolerance.

⁽²⁾ To complete KEMET part number, insert S = Standard coated or T=100% Sn (tin). Designates termination finish.



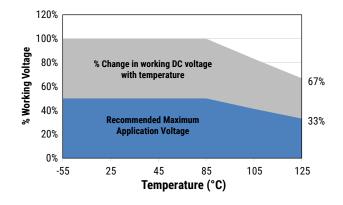
Table 1 - Ratings and Part Number Reference cont.

Rated Voltage	Rated Capacitance	Case Code Case Size	KEMET Part Number	DC Leakage	DF % at 25°C
(V) 85°C	μF			μΑ at 25°C Maximum/5 Minutes	120 Hz Maximum
35	39.0	D	T368D396(1)035A(2)	10.0	6
35	47.0	D	T368D476(1)035A(2)	10.0	6
50	5.6	С	T368C565(10050A(2)	2.2	5
50	6.8	С	T368C685(10050A(2)	2.7	5
50	8.2	С	T368C825(1)050A(2)	3.2	6
50	10.0	С	T368C106(1)050A(2)	4.0	6
50	12.0	С	T368C126(1)050A(2)	4.8	6
50	15.0	С	T368C156(1)050A(2)	6.0	6
50	18.0	D	T368D186(1)050A(2)	7.2	6
50	22.0	D	T368D226(1)050A(2)	8.8	6
(V) 85°C	μF	Case Code	KEMET Part Number	μΑ at 25°C Maximum/5 Minutes	120 Hz Maximum
Rated Voltage	Rated Capacitance	Case Size	NEME I I di (Number	DC Leakage	DF % at 25°C

⁽¹⁾ To complete KEMET or military part number, insert M - 20%, K - $\pm 10\%$ or J - $\pm 5\%$ (Available on special order). Designates Capacitance tolerance.

Recommended Voltage Derating Guidelines

	-55°C to 85°C	85°C to 125°C
% Change in working DC voltage with temperature	V _R	66% of V _R
Recommended Maximum Application Voltage	50% of V _R	33% of V _R



⁽²⁾ To complete KEMET part number, insert S = Standard coated or T=100% Sn (tin). Designates termination finish.



Ripple Current/Ripple Voltage

Permissible AC ripple voltage and current are related to equivalent series resistance (ESR) and the power dissipation capabilities of the device. Permissible AC ripple voltage that may be applied is limited by following criteria:

- 1. Dissipated power must not exceed the limits specified for the Series.
- 2. The positive peak AC voltage plus the DC bias voltage, if any, must not exceed the DC voltage rating of the capacitor.
- 3. The negative peak AC voltage in combination with bias voltage, if any, must not exceed the allowable limits specified for reverse voltage.

Thermal capacities for the various case sizes have been determined empirically and are listed below. The "ripple voltage" permissible may be calculated from the impedance and ESR data shown in the respective product section.

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

T= Environmental Temperature

The maximum power dissipation rating must be reduced with increasing environmental operating temperatures. Refer to the Temperature Compensation Multiplier table for details.

Case Size	Maximum Power Dissipation (Pmax) Watts at 25°C
С	0.090
D	0.135

Using the P max of the device, the maximum allowable rms ripple current or voltage may be determined.

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

I = rms ripple current (amperes)

E = rms ripple voltage (volts)

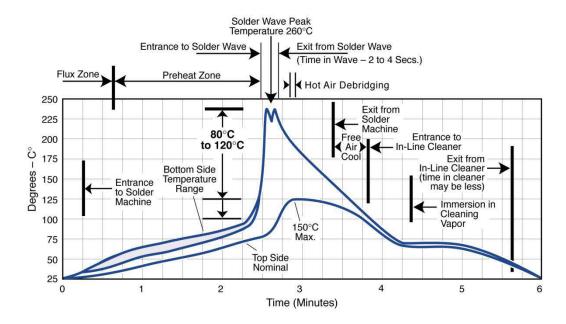
P max = maximum power dissipation (watts)

R = ESR at specified frequency (ohms)

Z = Impedance at specified frequency (ohms)



Optimum Solder Wave Profile

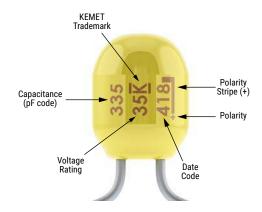


Mounting

All encased capacitors will pass the Resistance to Soldering Heat Test of MIL-STD-202, Method 210, Condition C. This test simulates wave solder of topside board mount product. This demonstration of resistance to solder heat is in accordance with what is believed to be the industry standard. More severe treatment must be considered reflective of an improper soldering process. The above figure is a recommended solder wave profile for both axial and radial leaded solid tantalum capacitors.



Capacitor Marking



Storage

Tantalum molded radial/axial capacitors should be stored in normal working environments. KEMET recommends that maximum storage temperature not exceed 40°C and maximum storage humidity not exceed 60°C RH. Storage at high temperature may cause a small, temporary increase in leakage current (measured under standard conditions), but the original value is usually restored within a few minutes after application of rated voltage. Storage at high humidity may increase capacitance and dissipation factor. Solderability will be degraded by exposure to high temperatures, high humidity, corrosive atmospheres, and long term storage. For optimized solderability capacitors stock should be used promptly, preferably within three years of receipt.

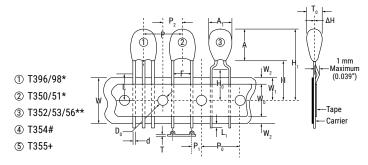
Tape & Reel Packaging Information

Table 2 - Packaging Quantity

Case Size	Standard Bulk Quantity	Standard Reel Quantity	Reel C-Spec	Ammo Pack Quantity
С	500	500	C-7301/7303	800
D	500	500	C-7301/7303	800



Figure 1



Dimension	Symbol	Nom mm (Tolerance mm (inch)		
Body Height (1)	Α	17.0 (0.67)		Maximum		
Body Width (1)	A ₁	15.24 ((0.600)	Maxi	Maximum	
Sprocket Hole Diameter	D ₀	4.0 (0).157)	±0.3 (±	0.012)	
Lead Diameter	d	0.51 (0.020)	0.64 (0.025)	±0.05 (±	±0.002)	
Lead Center (4)	F		See Not	te Below		
Component Base to Tape Center (4)	Н	C-7301 16.0 (0.630)	C-7303 18.0 (0.709)	C-7301 ±0.5 (±0.02)	C-7303 Minimum	
Lead Standoff Height	H ₀	C-7301 16.0 (0.630)	C-7303 18.0 (0.709)	C-7301 ±0.5 (±0.02)	C-7303 Minimum	
Component Height Above Tape Center	H ₁	32.25 (1.270)		Maximum		
Component Alignment Front to Rear	ΔΗ	0		1.0 (0.039)		
Cut Out Length	L	11.0 (0	11.0 (0.433)		mum	
Lead Protrusion	L,	1.0 (0.039)		Maxi	mum	
Component Pitch (5)	Р	12.7 (0.500)		±1.0 (±	0.039)	
Sprocket Hole Pitch (2)	P ₀	12.7 (0.500)		±0.03 (:	±0.012)	
Sprocket Hole Center to Lead Center (3) (4)	P ₁	See Note Below		±0.7 (±0.028)		
Sprocket Hole Center to Component Center (5)	P ₂	See Not		te Below		
Body Thickness	T ₀	10.2 (0.400)		Maximum		
Total Tape Thickness	Т	0.7 (0.28)		±0.02 (±0.008)		
Carrier Tape Width	W	18.0 (0	0.709)	+1.0/-0.5 (+0	.039/-0.020)	
Hold-Down Tape Width	W _o	15 mm (0.561)	6 mm (0.236)	+1.0/-0.8 (+0	0.039/-0.031	
Sprocket Hole Location	W ₁	9.0 (0.354)		+0.075/-0.5 (+0.030/-0.020)		
Hold-Down Tape Location	W ₂	12.0 (0.472)		Maximum		

Notes:

- (1) See Dimensions table for specific values per case size.
 (2) Cumulative pitch error ±1.0 mm (0.039) maximum in 20 consecutive sprocket hole locations.
 (3) Measured at bottom of standoff.
- (4) P, and F measured at egress from carrier tape.
- (5) P and P2 measured at egress from carrier tape.
- * Lead spacings are 2.5 mm (0.098") center to center (T350 A-H)
- **Lead spacings are 5.0 mm (0.197") center to center # Lead spacings are 6.35 mm (0.25") center to center + Lead spacings are 3.18 mm (0.125") center to center

F Dimensions:	P ₁ Dimensions:
0.100" ±0.015	Lead Spacing
0.125" ±0.015	0.100" - 0.200 ±0.028"
0.200" ±0.015	0.125" - 0.187 ±0.028"
0.250" ±0.015"	0.200" - 0.150 ±0.028"
0.100" ±0.015 (3 leaded)	0.250" - 0.125 ±0.028"
	0.100" - 0.100 ±0.028" (3 leaded)



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