

Overview

KEMET's A765 Series of Surface Mount Conductive Polymer Aluminum Solid Electrolytic Capacitors offer longer life and greater stability across a wide range of temperatures. The A765 Series highly conductive solid polymer electrolyte eliminates the risk of explosion from drying out and due to its low ESR properties is able to withstand higher ripple currents during normal operation. The A765 Series are ideally suited for industrial and commercial applications.

Applications

Typical applications include mobile phone chargers, computer motherboards, servers and consumer electronics.

Benefits

- Surface mount form factor
- Miniature
- Ultra low impedance
- High ripple current
- 105°C/2,000 hours
- RoHS compliant



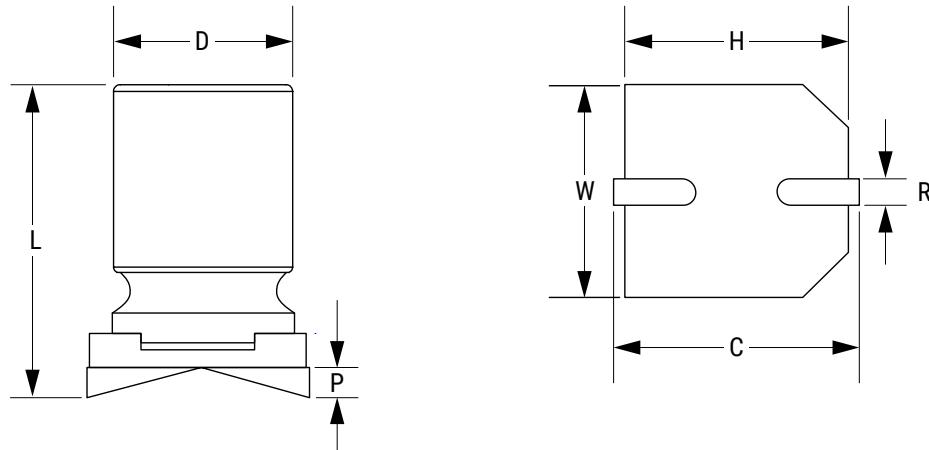
Part Number System

A	765	EB	397	M	0E	LA	E020
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	ESR
A = Aluminum	Surface Mount Conductive Polymer Solid Capacitor 105°C 2,000 Hour Ultra Low Impedance	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	2.5 = 0E 4 = 0G 6.3 = 0J 10 = 1A 16 = 1C 25 = 1E 35 = 1V	LA = Tape & Reel	Last 3 digits represent significant figures for ESR values. (mΩ)

Ordering Options Table

Packaging Type	Packaging Code
Standard Packaging Options	
T&R	LA
Contact KEMET for other Lead and Packaging options	

Dimensions – Millimeters



Size Code	D		L		W		H		C		R	P
	Nominal	Tolerance	Nominal	Nominal								
BC	5	± 0.5	6	± 0.3	5.3	± 0.2	5.3	± 0.2	6.0	± 0.2	0.5 – 0.8	1.4
BG	5	± 0.5	7	± 0.3	5.3	± 0.2	5.3	± 0.2	6.0	± 0.2	0.5 – 0.8	1.4
EB	6.3	± 0.5	5.7	± 0.3	6.6	± 0.2	6.6	± 0.2	7.3	± 0.2	0.5 – 0.8	2.1
EG	6.3	± 0.5	7	± 0.3	6.6	± 0.2	6.6	± 0.2	7.3	± 0.2	0.5 – 0.8	2.1
EK	6.3	± 0.5	8	± 0.3	6.6	± 0.2	6.6	± 0.2	7.3	± 0.2	0.5 – 0.8	2.1
EN	6.3	± 0.5	9.7	± 0.3	6.6	± 0.2	6.6	± 0.2	7.3	± 0.2	0.5 – 0.8	2.1
KH	8	± 0.5	7.5	± 0.3	8.3	± 0.2	8.3	± 0.2	9.0	± 0.2	0.8 – 1.1	3.2
KN	8	± 0.5	9.7	± 0.3	8.3	± 0.2	8.3	± 0.2	9.0	± 0.2	0.8 – 1.1	3.2
MU	10	± 0.5	12.6	± 0.3	10.3	± 0.2	10.3	± 0.2	11.0	± 0.2	0.8 – 1.1	4.6

Environmental Compliance

As an environmentally conscious company, KEMET is working continuously with improvements concerning the environmental effects of both our capacitors and their production. In Europe (RoHS Directive) and in some other geographical areas like China, legislation has been put in place to prevent the use of some hazardous materials, such as lead (Pb), in electronic equipment. All products in this catalog are produced to help our customers' obligations to guarantee their products and fulfill these legislative requirements. The only material of concern in our products has been lead (Pb), which has been removed from all designs to fulfill the requirement of containing less than 0.1% of lead in any homogeneous material. KEMET will closely follow any changes in legislation worldwide and makes any necessary changes in its products, whenever needed.

Some customer segments such as medical, military and automotive electronics may still require the use of Lead in electrode coatings. To clarify the situation and distinguish products from each other, a special symbol is used on the packaging labels for RoHS compatible capacitors.

Because of customer requirements, there may appear additional markings such as LF = Lead-free, or LFW = Lead-free wires on the label.

Performance Characteristics

Item	Performance Characteristics
Capacitance Range	10 – 2,700 μ F
Rated Voltage	2.5 – 35 VDC
Operating Temperature	-55°C to +105°C
Capacitance Tolerance	$\pm 20\%$ at 120 Hz/20°C
Life Test	2,000 hours (see conditions in Test Method & Performance)
Leakage Current	\leq Specified Value
C = Rated capacitance (μ F), V = Rated voltage (VDC), Voltage applied for 2 minutes at 20°C.	

Impedance Z Characteristics at 100 Hz

Z (-25°C)/Z (20°C)	≤ 1.25
Z (-55°C)/Z (20°C)	≤ 1.25

Compensation Factor of Ripple Current (RC) vs. Frequency

Frequency	120 Hz \leq f $<$ 1 kHz	1 kHz \leq f $<$ 10 kHz	10 kHz \leq f $<$ 100 kHz	100 kHz \leq f $<$ 500 kHz
Coefficient	0.05	0.30	0.70	1.00

Test Method & Performance

Conditions	Load Life Test	Shelf Life Test
Temperature	105°C	105°C
Test Duration	2,000 hours	168 hours
Ripple Current	No ripple current applied	No ripple current applied
Voltage	The sum of DC voltage and the peak AC voltage must not exceed the rated voltage of the capacitor	No voltage applied
Performance	The following specifications will be satisfied when the capacitor is restored to 20°C.	
Capacitance Change	Within $\pm 20\%$ of the initial value	
Dissipation Factor	Does not exceed 150% of the specified value	
ESR	Does not exceed 150% of the specified value	
Leakage Current	Does not exceed specified value	
Damp Heat	The following specifications will be satisfied when the capacitor is restored to 20°C after application of rated voltage for 1,000 hours at 60°C, 90%~95% RH.	
Capacitance Change	Within $\pm 20\%$ of the initial value	
Dissipation Factor	Does not exceed 150% of the specified value	
ESR	Does not exceed 150% of the specified value	
Leakage Current	Does not exceed specified value	
Surge Voltage (Rated Voltage x 1.15(V))	The following specifications will be satisfied when the capacitor is subjected to 1,000 cycles each consisting of charge with the surge voltages specified at 105°C for 30 seconds through a protective resistor ($R_c = 1 \text{ k}\Omega$) and discharge for 5 minutes 30 seconds.	
Capacitance Change	Within $\pm 20\%$ of the initial value	
Dissipation Factor	Does not exceed 150% of the specified value	
ESR	Does not exceed 150% of the specified value	
Leakage Current	Does not exceed specified value	
Resistance to Soldering Heat	Measurement for solder temperature profile at capacitor top and terminal.	
Capacitance Change	Within $\pm 10\%$ of the initial value	
Dissipation Factor	Does not exceed 130% of the specified value	
ESR	Does not exceed 130% of the specified value	
Leakage Current	Does not exceed specified value	

Shelf Life and Re-Ageing

- KEMET's conductive polymer aluminum solid electrolytic capacitors should not be stored in high temperatures or where there is a high level of humidity.
- The suitable storage condition for KEMET's conductive polymer aluminum solid electrolytic capacitors is +5 to +35°C and less than 75% in relative humidity.
- KEMET's conductive polymer aluminum solid electrolytic capacitors should not be stored in damp conditions such as water, saltwater spray or oil spray.
- KEMET's conductive polymer aluminum solid electrolytic capacitors should not be stored in an environment full of hazardous gas (hydrogen sulphide, sulphurous acid gas, nitrous acid, chlorine gas, ammonium, etc.)
- KEMET's conductive polymer aluminum solid electrolytic capacitors should not be stored under exposure to ozone, ultraviolet rays or radiation.

The capacitance, ESR and impedance of a capacitor will not change significantly after extended storage periods, however the leakage current will very slowly increase.

If a capacitor is stored for a long period of time, the leakage current must be verified. If the leakage current is superior to the value listed in this catalog, the capacitors must be reformed.

Re-age (Reforming) Procedure

Apply the rated DC voltage to the capacitor at 105°C for a period of 120 minutes through a 1 kΩ series resistor.

Table 1 – Ratings & Part Number Reference

VDC	VDC Surge Voltage	Rated Capacitance 120 Hz 20°C (µF)	Case Size D x L (mm)	ESR 100 kHz 20°C (mΩ)	RC 100 kHz 105°C (mA)	LC 20°C 2 Minutes (µA)	KEMET Part Number
2.5	2.9	390	6.3 x 5.7	20	2800	300	A765EB397M0ELAE020
2.5	2.9	470	6.3 x 7	20	3200	300	A765EG477M0ELAE020
2.5	2.9	560	6.3 x 8	20	3200	300	A765EK567M0ELAE020
2.5	2.9	680	6.3 x 9.7	12	4300	340	A765EN687M0ELAE012
2.5	2.9	820	8 x 9.7	12	4880	410	A765KN827M0ELAE012
2.5	2.9	1000	8 x 9.7	12	4260	500	A765KN108M0ELAE012
2.5	2.9	1200	8 x 9.7	12	5100	600	A765KN128M0ELAE012
2.5	2.9	1500	8 x 9.7	10	3400	750	A765KN158M0ELAE010
2.5	2.9	2700	10 x 12.6	12	5070	1350	A765MU278M0ELAE012
4	4.6	560	8 x 7.5	16	3220	448	A765KH567M0GLAE016
4	4.6	680	8 x 9.7	12	4520	544	A765KN687M0GLAE012
4	4.6	820	8 x 9.7	12	5220	656	A765KN827M0GLAE012
4	4.6	1000	8 x 9.7	12	5220	800	A765KN108M0GLAE012
4	4.6	1200	8 x 9.7	12	3500	960	A765KN128M0GLAE012
4	4.6	1500	10 x 12.6	12	5440	1200	A765MU158M0GLAE012
6.3	7.2	100	5 x 6	25	1700	300	A765BC107M0JLAE025
6.3	7.2	150	6.3 x 5.7	20	2500	300	A765EB157M0JLAE020
6.3	7.2	180	6.3 x 5.7	20	2800	300	A765EB187M0JLAE020
6.3	7.2	220	5 x 7	20	2700	300	A765BG227M0JLAE020
6.3	7.2	220	6.3 x 5.7	20	2800	300	A765EB227M0JLAE020
6.3	7.2	270	6.3 x 7	20	2800	340	A765EG277M0JLAE020
6.3	7.2	330	6.3 x 7	17	2570	415	A765EG337M0JLAE017
6.3	7.2	390	8 x 9.7	30	3220	491	A765KN397M0JLAE030
6.3	7.2	470	8 x 7.5	16	3220	592	A765KH477M0JLAE016
6.3	7.2	560	8 x 9.7	12	5000	706	A765KN567M0JLAE012
6.3	7.2	680	8 x 9.7	12	5000	857	A765KN687M0JLAE012
6.3	7.2	820	8 x 9.7	10	3350	1033	A765KN827M0JLAE010
6.3	7.2	1000	8 x 9.7	12	4770	1260	A765KN108M0JLAE012
6.3	7.2	1200	8 x 9.7	12	4770	1512	A765KN128M0JLAE012
6.3	7.2	1500	10 x 12.6	10	4100	1890	A765MU158M0JLAE010
10	11.5	150	6.3 x 5.7	22	2320	300	A765EB157M1ALAE022
10	11.5	180	8 x 9.7	20	3500	360	A765KN187M1ALAE020
10	11.5	220	8 x 9.7	20	3500	440	A765KN227M1ALAE020
10	11.5	270	8 x 9.7	20	3600	540	A765KN277M1ALAE020
10	11.5	330	8 x 7.5	17	2350	660	A765KH337M1ALAE017
10	11.5	680	10 x 12.6	13	3800	1360	A765MU687M1ALAE013
16	18.4	100	6.3 x 5.7	25	2500	320	A765EB107M1CLAE025
16	18.4	150	6.3 x 7	27	2530	480	A765EG157M1CLAE027
16	18.4	180	8 x 7.5	16	2800	576	A765KH187M1CLAE016
16	18.4	220	8 x 9.7	16	3700	704	A765KN227M1CLAE016
16	18.4	270	8 x 9.7	16	3890	864	A765KN277M1CLAE016
16	18.4	330	8 x 9.7	16	3890	1056	A765KN337M1CLAE016
16	18.4	390	8 x 9.7	16	3890	1248	A765KN397M1CLAE016
16	18.4	470	10 x 12.6	16	4720	1504	A765MU477M1CLAE016
16	18.4	560	10 x 12.6	18	4200	1792	A765MU567M1CLAE018
16	18.4	680	10 x 12.6	18	4200	2176	A765MU687M1CLAE018
16	18.4	820	10 x 12.6	18	4200	2624	A765MU827M1CLAE018
16	18.4	1000	10 x 12.6	18	4300	3200	A765MU108M1CLAE018
25	28.7	47	6.3 x 5.7	40	1200	300	A765EB476M1ELAE040
25	28.7	56	8 x 9.7	75	1300	300	A765KN566M1ELAE075
25	28.7	82	8 x 9.7	29	2700	410	A765KN826M1ELAE029
25	28.7	100	8 x 9.7	24	3300	500	A765KN107M1ELAE024
25	28.7	150	10 x 12.6	50	3800	750	A765MU157M1ELAE050
25	28.7	180	10 x 12.6	50	3800	900	A765MU187M1ELAE050
25	28.7	220	10 x 12.6	50	3800	1100	A765MU227M1ELAE050
25	28.7	270	10 x 12.6	50	3800	1350	A765MU277M1ELAE050
25	28.7	330	10 x 12.6	20	2890	1650	A765MU337M1ELAE020
35	40.2	10	6.3 x 5.7	85	800	300	A765EB106M1VLAE085
35	40.2	18	6.3 x 5.7	85	800	300	A765EB186M1VLAE085
VDC	VDC Surge	Rated Capacitance	Case Size	ESR	RC	LC	Part Number

Installing

Conductive polymer aluminum solid electrolytic capacitors are prone to a change in leakage current due to thermal stress during soldering. The leakage current may increase after soldering or reflow soldering. Therefore, do not use these capacitors in circuits sensitive to leakage current.

- Do not use in a high resistance, high voltage circuit.
- Do not use in a coupling circuit.
- Do not use in a time constant circuit.
- Do not use in a circuits that are significantly affected by leakage current.

A general principle is that lower temperature operation results in a longer, useful life of the capacitor. For this reason, it should be ensured that electrolytic capacitors are placed away from heat-emitting components. Adequate space should be allowed between components for cooling air to circulate, especially when high ripple current loads are applied. In any case, the maximum rated temperature must not be exceeded.

- Do not deform the case of capacitors or use capacitors with a deformed case.
- Verify that the connections of the capacitors are able to insert on the board without excessive mechanical force. Excessive force during insertion, as well as after soldering may cause terminal damage and affect the electrical performance.
- Ensure electrical insulation between the capacitor case, negative terminal, positive terminal and PCB.
- If the capacitors require mounting through additional means, the recommended mounting accessories shall be used.
- Verify the correct polarization of the capacitor on the board.

KEMET recommends, to ensure that the voltage across each capacitor does not exceed its rated voltage.

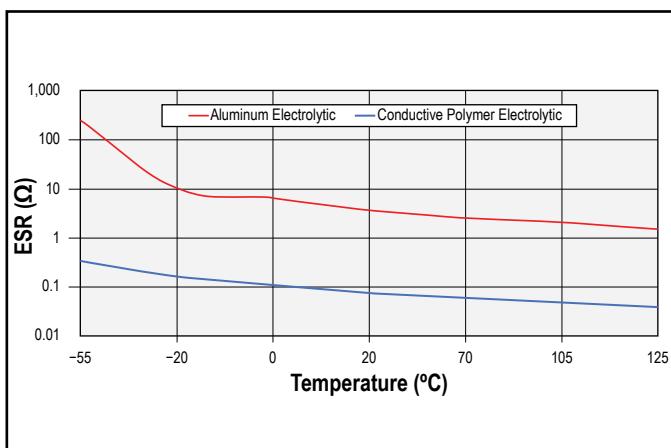
Temperature Stability Characteristics

Stable characteristics in a very low temperature range allows for less circuits in the design.

Due to a solid polymer electrolyte, conductive polymer electrolytic capacitors feature higher conductivity. This results in a lower ESR which, coupled with high capacitance allows an aluminum polymer capacitor to replace several standard electrolytic capacitors, reducing the number of components and maximizing board space.

The ESR of polymer capacitors is nearly constant within its operating temperature range, while the ESR of a standard electrolytic capacitor noticeably changes with temperature.

Temperature Stability Characteristics



Expected Life Calculation Chart

Expected life depends on operating temperature according to the following formula:

$$L = L_0 \times 10^{(T_0-T)/20}$$

Where:

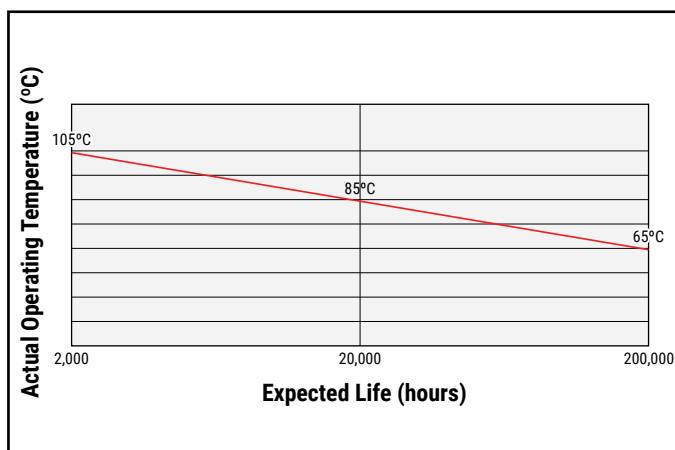
L: Expected life

L₀: Life at maximum permissible operating temperature with rated operating voltage applied (hours)

T: Actual operating temperature

T₀: Maximum permissible operating temperature

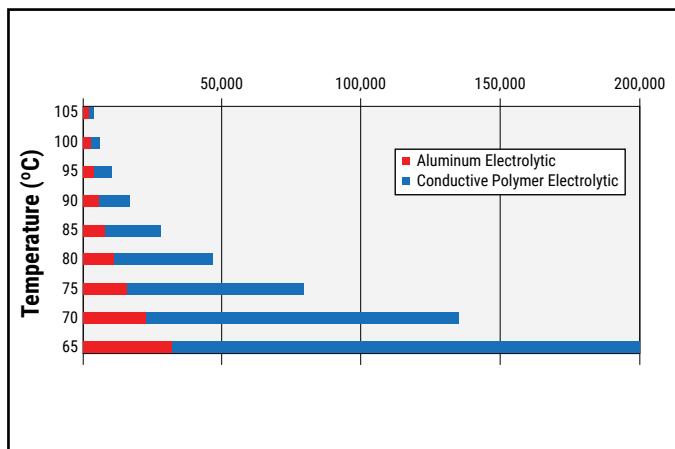
Expected Life Calculation Chart



The effect of derating temperature can be seen in this graph.

In this example, the life expectancy of a 2,000 hour Polymer capacitor is significantly greater than that of a 2,000 hour standard electrolytic capacitor.

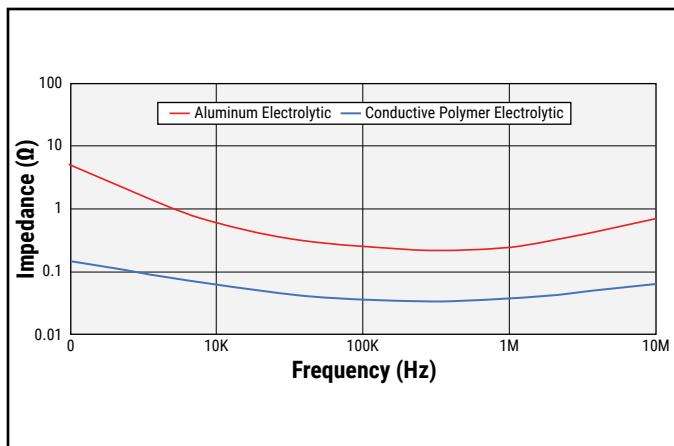
Capacitor Life (H)



Ultra Low Impedance at High Frequency

Due to a solid polymer electrolyte, the curve of a conductive polymer electrolytic capacitor, (Z and ESR) is significantly lower than that of a standard electrolytic capacitor.

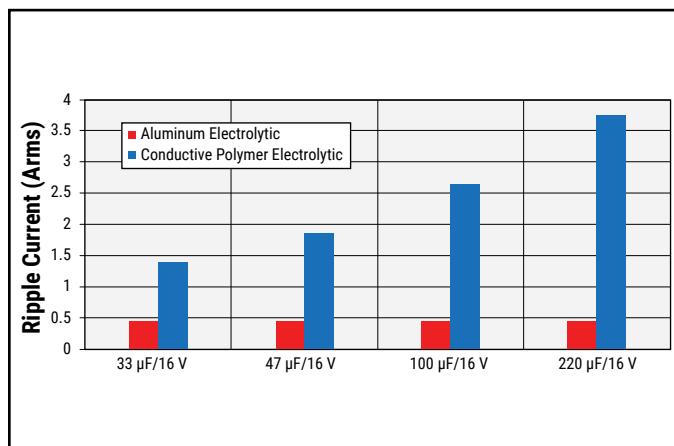
Ultra Low Impedance at High Frequency (Low ESR)



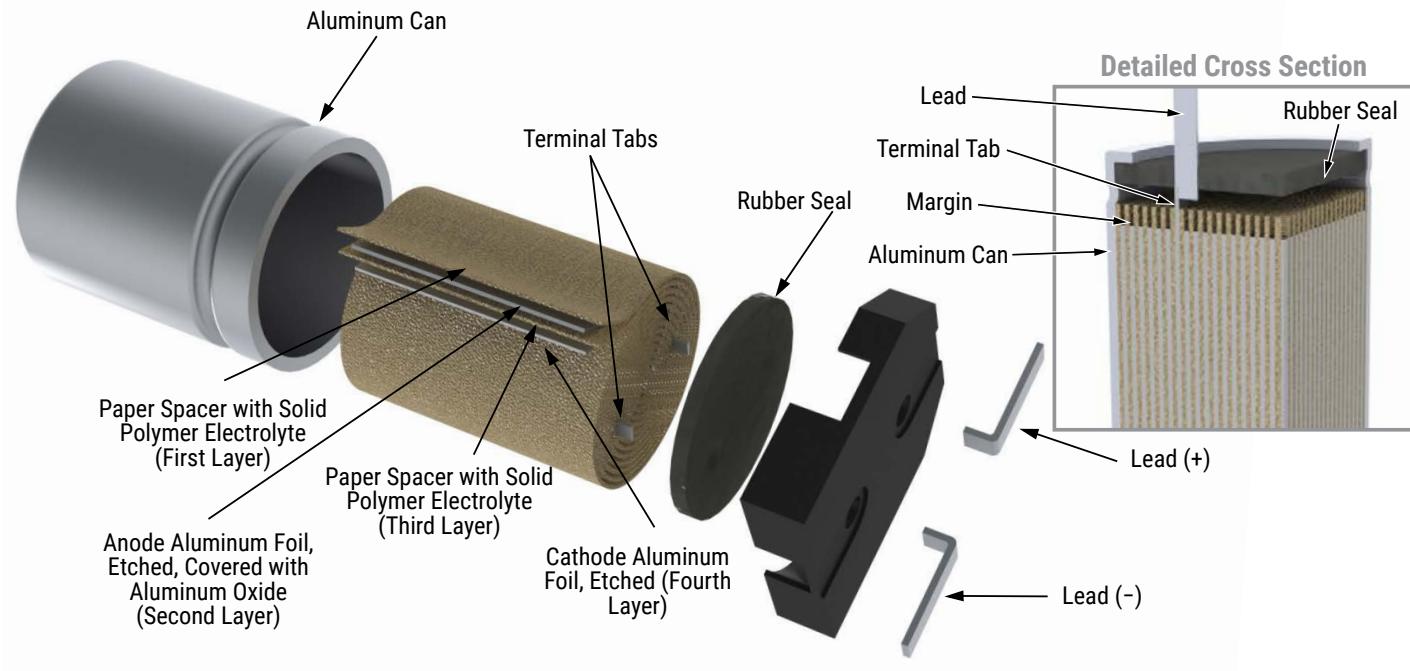
High Resistance to Ripple Current

As a result of a lower ESR, conductive polymer electrolytic capacitors are able to withstand higher ripple currents during normal operation.

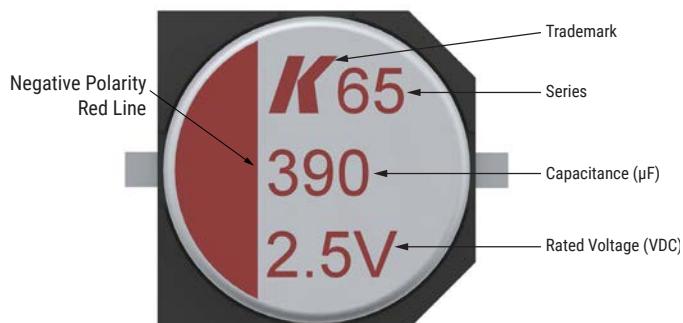
Allowable Ripple Current (100 kHz 105°C)



Construction



Standard Marking for Surface Mount Types



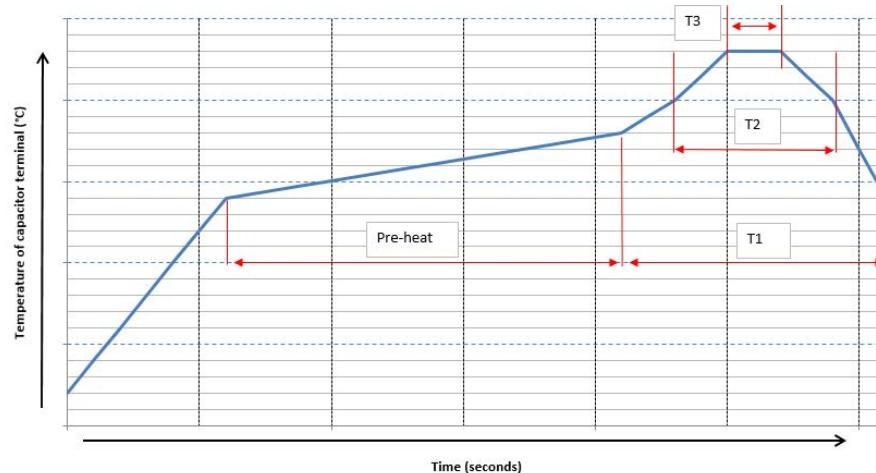
Re-Flow Soldering

The soldering conditions should be within the specified conditions below:

- Do not dip the capacitors body into the melted solder.
- Flux should only be applied to the capacitors terminals.
- Vapour heat transfer systems are not recommended. The system should be thermal, such as infra-red radiation or hot blast.
- Observe the soldering conditions as shown below.
- Do not exceed these limits and avoid repeated reflowing.

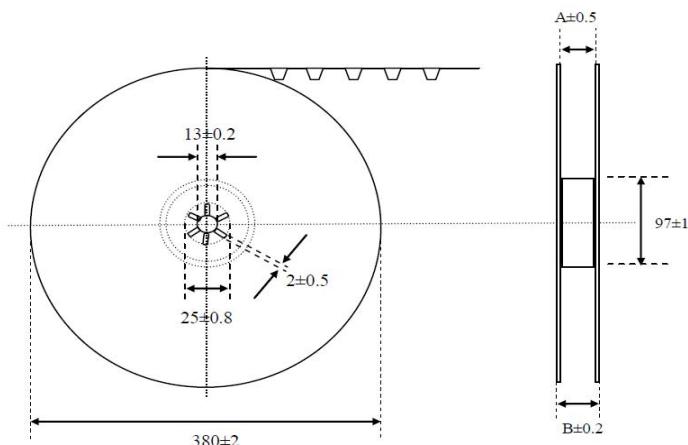
Time period	T1	T2	T3	
			$\Phi < 8$	$\Phi \geq 8$
Temperature (°C)	≤ 200	≤ 230	≤ 260	≤ 240
Time (seconds)	60 – 180	≤ 50	≤ 40	≤ 40

Maximum Temperature: ≤ 275 Times ≤ 2



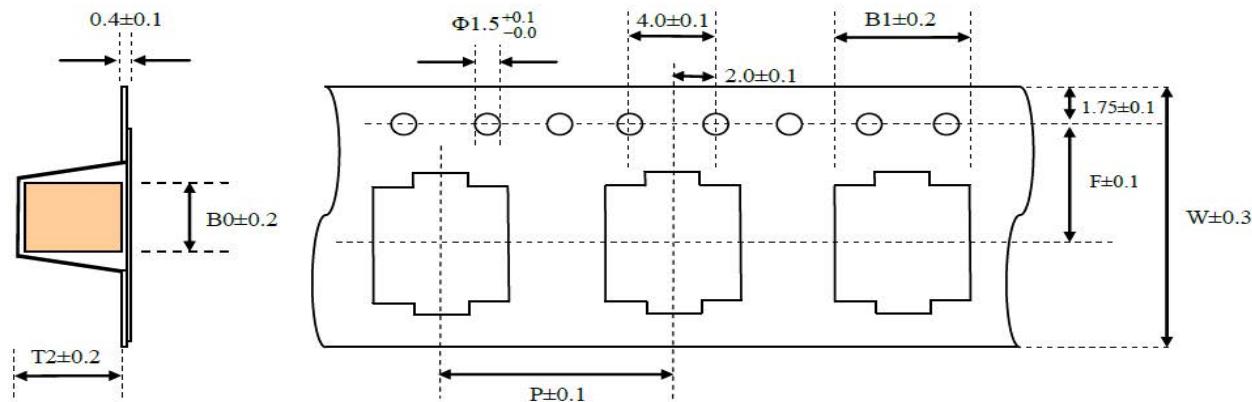
Lead Taping & Packaging

Case Size (mm)	Reel	
	A	B
	±0.5	±0.2
5 x 6	14	14
5 x 7	14	14
6.3 x 5.7	18	22
6.3 x 7	18	22
6.3 x 8	18	22
6.3 x 9.7	18	22
8 x 7.5	26	30
8 x 9.7	26	30
10 x 12.6	26	30



Size Code	Diameter (mm)	Length (mm)	Reel Quantity	Box Quantity
BC	5	6	1,000	10,000
BG	5	7	1,000	10,000
EB	6.3	5.7	1,000	10,000
EG	6.3	7	1,000	10,000
EK	6.3	8	1,000	10,000
EN	6.3	9.7	800	8,000
KH	8	7.5	500	3,000
KN	8	9.7	500	3,000
MU	10	12.6	400	2,400

Taping for Automatic Insertion Machines



Dimensions (mm)	W	P	F	B1	B0	T2
Tolerance	±0.3	±0.1	±0.1	±0.2	±0.2	±0.2
5 x 6	16.0	12.0	7.5	5.6	5.6	7.1
5 x 7	16.0	12.0	7.5	5.6	5.6	7.1
6.3 x 5.7	16.0	12.0	7.5	7.0	7.0	7.6
6.3 x 7	16.0	12.0	7.5	7.0	7.0	7.6
6.3 x 8	16.0	12.0	7.5	7.0	7.0	7.6
6.3 x 9.7	16.0	12.0	7.5	7.0	7.0	9.6
8 x 7.5	24.0	12.0	11.5	8.6	8.6	8.4
8 x 9.7	24.0	16.0	11.5	8.6	8.6	10.3
10 x 12.6	24.0	16.0	11.5	10.7	10.7	13.1

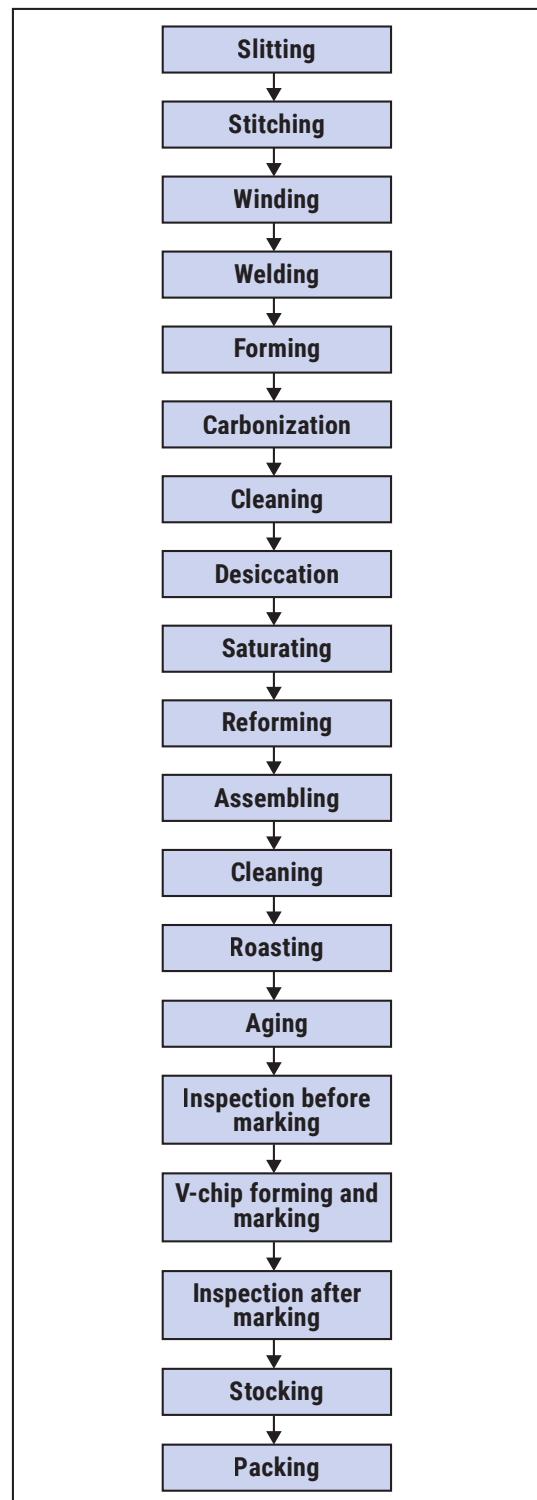
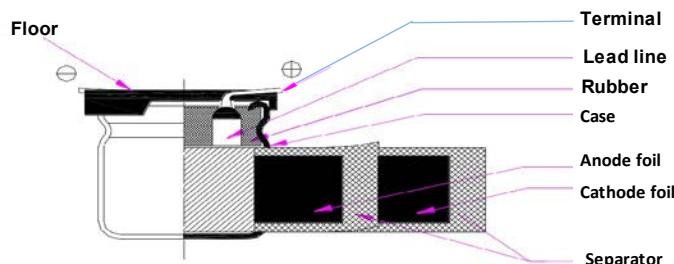
Construction Data

The manufacturing process begins with the anode foil being electrochemically etched to increase the surface area and then 'formed' to produce the aluminum oxide layer. Both the anode and cathode foils are then interleaved with absorbent paper and wound into a cylinder. During the winding process, aluminum tabs are attached to each foil to provide the electrical contact.

The deck, complete with terminals, is attached to the tabs and then folded down to rest on top of the winding. The complete winding is impregnated with a conductive polymer electrolyte before being housed in a suitable container, usually an aluminum can, and sealed. Throughout the process, all materials inside the housing must be maintained at the highest purity and be compatible with the electrolyte.

Each capacitor is aged and tested before being packed. The purpose of aging is to repair any damage in the oxide layer and thus reduce the leakage current to a very low level. Aging is normally carried out at the rated temperature of the capacitor and is accomplished by applying voltage to the device while carefully controlling the supply current. The process may take several hours to complete. Damage to the oxide layer can occur due to variety of reasons:

- Slitting of the anode foil after forming
- Attaching the tabs to the anode foil
- Minor mechanical damage caused during winding



Product Safety

THESE NOTES SHOULD BE READ IN CONJUNCTION WITH THE PRODUCT DATA SHEET. FAILURE TO OBSERVE THE RATINGS AND THE INFORMATION ON THIS SHEET MAY RESULT IN A SAFETY HAZARD.

Warning

When potential lethal voltages e.g. 30 VAC (RMS) or 60 VDC are applied to the terminals of this product, the use of a hazard warning label is recommended.

1. Electrolyte

Conductive polymer aluminum solid electrolytic capacitors contain polymers (electrolytes) which can be hazardous.

1.1 Safety Precautions

In the event of gas venting, avoid contact and inhalation. Wash the affected area with hot water. Use rubber gloves to avoid skin contact. Any contact with the eyes should be liberally irrigated with water and medical advice sought.

2. Intrinsic Properties

2.1 Operating

DC capacitors are polar devices and will operate safely only if correctly connected. Reversing the connections will result in high leakage currents which could subsequently cause short circuit failure and possibly explosion and fire. Correctly polarized operation may result in the above failure modes if:

- The surge voltage is exceeded
- The ambient temperature is too high
- Excessive ripple currents are applied

2.2 Non-Operating

Excessive torque or soldering heat may affect the performance of the capacitor or damage the sealing. Electric shock may result if capacitors are not discharged.

3. Disposal

Aluminum electrolytic capacitors are consignable waste under the Special Waste Regulations 1996 (Statutory Instrument 1996 No 972), which complies with the EC Hazardous Waste Directive – Directive 91/689/EEC. The electrolyte should therefore be treated as a hazardous waste and advice should be sought from the local office of the Environmental Agency regarding its disposal.

Due to the construction of an aluminum electrolytic capacitors, high temperature incineration may cause the component to explode due to build-up of internal pressure. In addition, incineration may also cause the emission of noxious fumes.

KEMET strongly recommends that if there are any doubts regarding the disposal of conductive polymer aluminum solid electrolytic capacitors, that advice be sought from the local regulating authority.

In addition, KEMET would like to request that users of aluminum electrolytic capacitors respect the needs of the environment and, wherever possible, recover as much of the materials as possible, i.e. aluminum.

Product Safety cont'd

4. Unsafe Use

Most failures are of a passive nature and do not represent a safety hazard. A hazard may, however, arise if this failure causes a dangerous malfunction of the equipment in which the capacitor is employed. Circuits should be designed to fail safe under the normal modes of failure.

The usual failure mode is an increase in leakage current or short circuit. Other possible modes are decrease of capacitance, increase in dissipation factor (and impedance) or an open circuit. Capacitors should be used in a well-ventilated enclosure or cabinet.

5. Mounting

Care should be taken when mounting by clamp, that any safety vent in the can is not covered.

6. Fumigation

In many countries throughout the world it is now common practice to fumigate shipments of products in order to control insect infestation, particularly when wooden packaging is used. Currently, methyl bromide is widely used as a fumigant, which can penetrate cardboard packing and polymer bags and, therefore, come into direct contact with equipment or components contained within.

If aluminum electrolytic capacitors become exposed to methyl bromide then corrosion may occur, depending upon the concentration and exposure time to the chemical.

This failure mode can affect all types of KEMET aluminum electrolytic capacitors. Methyl bromide can penetrate the seals of aluminum electrolytic capacitors and cause internal corrosion of the anode connection, resulting in the component becoming open circuit. The rate of corrosion will depend upon the level of exposure to methyl bromide as well as the subsequent operating conditions, such as voltage and temperature. It may take months or, in some cases, several years before the component becomes open circuit.

7. Dielectric Absorption

A phenomenon known as dielectric absorption can cause aluminum electrolytic capacitors to recharge themselves. The phenomenon is well known but impossible to predict with any great accuracy, so potentially any electrolytic product could be affected. Thus, a capacitor that has been charged and then completely discharged will appear to recharge itself if left open circuit; this will manifest itself as a small voltage across the terminals of the capacitor. Generally, the voltages seen are less than 20 VDC. However, higher voltages have on occasion been reported.

In order to avoid any problems caused by this voltage, KEMET recommends that capacitors be discharged before connecting to the terminals.

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