



## Overview

KEMET's A771 Surface Mount Solid Polymer Aluminum Capacitors offer 4,000h lifetime and greater stability across a wide range of temperatures. This highly conductive solid polymer electrolyte eliminates the risk of drying out and, due to its ultra low ESR properties, is able to withstand higher ripple currents during normal operation, up to +35% when compared to A768 series. The A771 is AEC-Q200 qualified, ideally suited for automotive and industrial applications. Anti-Vibration version is available for 10 mm diameter. If CV/Size is not available please [contact your local Sales Representative for more information.](#)

## Applications

Typical applications include long life LED drivers, professional power amplifiers, industrial power supplies, DC/DC converters, voltage regulators, and decoupling. This series is used for automotive powertrain.

## Benefits

- High temperature and long lifetime: 125°C/4,000 hours
- High ripple current up to 3.6 A<sub>RMS</sub>
- Ultra low impedance
- High vibration resistance up to 30 g
- Surface mount form factor
- RoHS compliant
- Halogen-free

Standard



Anti-Vibration



## Part Number System

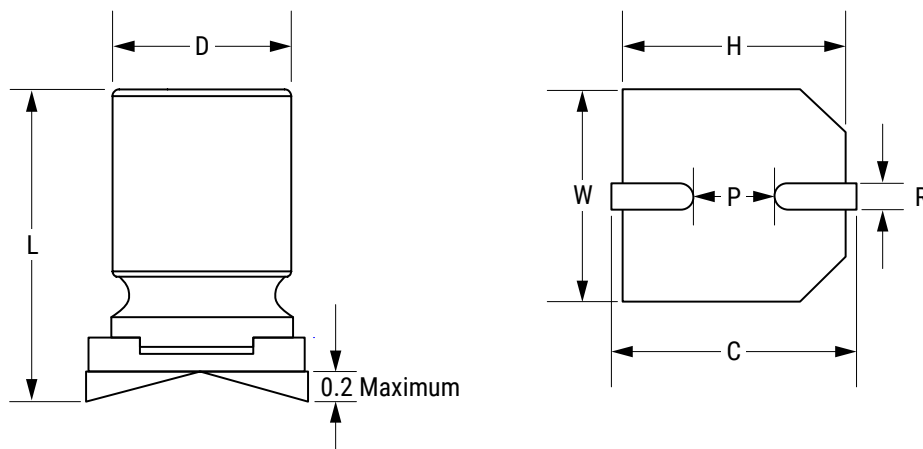
A	771	MS	107	M	1J	LA	S	018
Capacitor Class	Series	Size Code	Capacitance Code (pF)	Tolerance	Rated Voltage (VDC)	Packaging	Electrical Parameters	ESR
A = Aluminum	Surface Mount Solid Polymer Aluminum Capacitors 125°C 4,000 hours Long Life, High Ripple, Low Leakage	See Dimension Table	First two digits represent significant figures for capacitance values. Last digit specifies the number of zeros to be added.	M = ±20%	16 = 1C 20 = 1D 25 = 1E 35 = 1V 40 = 1G 50 = 1H 63 = 1J	LA = Tape & Reel	S = Automotive AEC-Q200 V = Automotive + Anti-Vibration	Last 3 digits represent significant figures for ESR values. (mΩ)

## Ordering Options Table

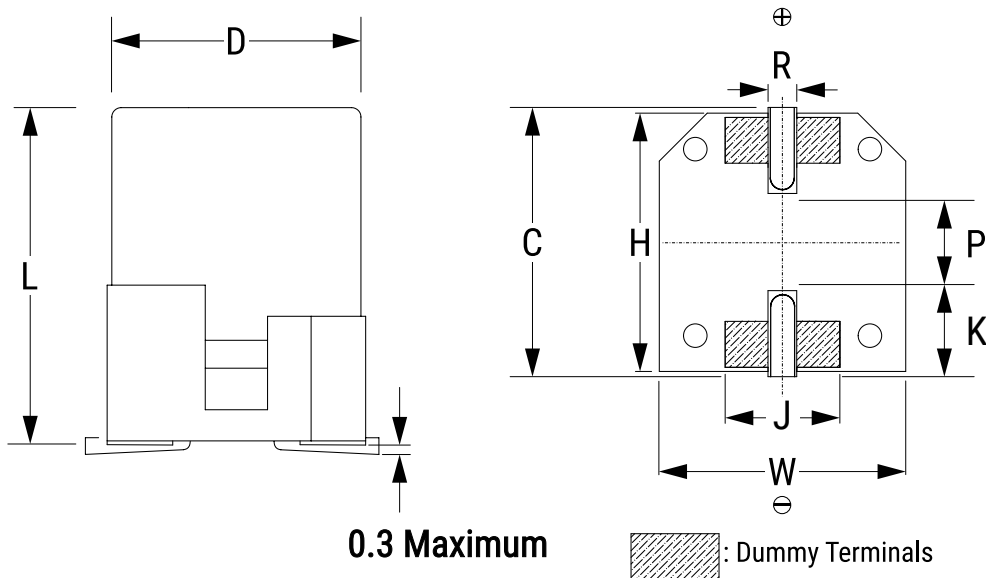
Packaging Type	Packaging Code
Standard Packaging Options	
Tape & Reel	LA
Contact KEMET for other Lead and Packaging options	

## Dimensions – Millimeters

Standard



Anti-Vibration



 : Dummy Terminals

Size Code	D		L		W		H		C		R	P	J	K
	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Nominal	Tolerance	Range	Nominal	Nominal	Nominal
KS	8	±0.5	12.2	±0.3	8.3	±0.2	8.3	±0.2	9	±0.2	0.8 – 1.1	3.2	-	-
MN	10	±0.5	10.2	±0.3	10.3	±0.2	10.3	±0.2	11	±0.2	0.8 – 1.1	4.6	-	-
MN (Anti-Vibration)	10	±0.5	10.4	±0.3	10.3	±0.2	10.8	±0.2	11.2	±0.2	0.7 – 1.1	4.6	4.4	3.2
MS	10	±0.5	12.2	±0.5	10.3	±0.2	10.3	±0.2	11	±0.2	0.8 – 1.1	4.6	-	-
MS (Anti-Vibration)	10	±0.5	12.4	±0.5	10.3	±0.2	10.8	±0.2	11	±0.2	0.7 – 1.1	4.6	4.4	3.2

## Environmental Compliance



All Part Numbers in this datasheet are Reach and RoHS compliant, and Halogen-Free.

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 make 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.

Due to 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	47 – 1,000 $\mu$ F
Rated Voltage	16 – 63 VDC
Operating Temperature	-55°C to +125°C
Capacitance Tolerance	$\pm$ 20% at 120 Hz/20°C
Life Test	4,000 hours (see conditions in Test Method & Performance)
Leakage Current	$\leq$ Specified Value
C = Rated capacitance ( $\mu$ F), V = Rated voltage (VDC), Voltage applied for 2 minutes at 20°C.	

## 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	125°C	125°C
Test Duration	4,000 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
<b>Performance</b>	<b>The following specifications will be satisfied when the capacitor is restored to 20°C.</b>	
Capacitance Change	Within ±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	
<b>Damp Heat</b>	<b>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.</b>	
Capacitance Change	Within ±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	
<b>Surge Voltage (Rated Voltage x 1.15(V))</b>	<b>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 125°C for 30 seconds through a protective resistor (<math>R_c = 1\text{ k}\Omega</math>) and discharge for 5 minutes, 30 seconds.</b>	
Capacitance Change	Within ±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	
<b>Resistance to Soldering Heat</b>	<b>Measurement for solder temperature profile at capacitor top and terminal.</b>	
Capacitance Change	Within ±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	

## Test Method & Performance – Anti-Vibration Version

Anti-Vibration Version	
Vibration Test Specifications	1.5 mm displacement amplitude or 30 g maximum acceleration. Vibration applied for three 4-hour sessions at 10 – 2,000 Hz (capacitor on PCB).
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

## Shelf Life & Re-Ageing

### Shelf Life

Solderability is 12 months after manufacturing date.

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

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

**If a capacitor has been stored for more than 12 months under these conditions and it shows increased leakage current, then a treatment by voltage application is recommended.**

Note: The JEDEC-J-STD-020 standard does not apply.

### Floor Life

The Capacitor should be soldered within 4 weeks after removal from sealed bag. Reseal the unused capacitors into plastic bags. All parts manufactured from week 1 of year 2022 are packed in sealed plastic bags.

### Re-age Procedure

Apply the rated DC voltage to the capacitor at 125°C for a period of 120 minutes through a 1 k $\Omega$  series resistor.

**Table 1 – Ratings & Part Number Reference**

Rated Voltage	Surge Voltage	Rated Capacitance	ESR	Ripple Current	Leakage Current	Case Size	KEMET Part Number		Case Size
(VDC)	(VDC)	120 Hz 20°C (µF)	100 kHz 20°C (mΩ)	100 kHz 125°C (mA)	20°C 2 min (µA)	D x L (mm)	Standard Version	Anti-Vibration Version	D x L (mm) Anti-Vibration
16	18.40	470	11	3,375	1,504	8 x 12.2	A771KS477M1CLAS011	-	-
16	18.40	560	11	3,375	1,792	8 x 12.2	A771KS567M1CLAS011	-	-
16	18.40	680	13	3,190	2,176	10 x 10.2	A771MN687M1CLAS013	A771MN687M1CLAV013	10 x 10.4
16	18.40	1000	10	3,645	3,200	10 x 12.2	A771MS108M1CLAS010	A771MS108M1CLAV010	10 x 12.4
20	23.00	390	11	3,240	1,560	8 x 12.2	A771KS397M1DLAS011	-	-
20	23.00	560	13	3,080	2,240	10 x 10.2	A771MN567M1DLAS013	A771MN567M1DLAV013	10 x 10.4
20	23.00	680	10	3,510	2,720	10 x 12.2	A771MS687M1DLAS010	A771MS687M1DLAV010	10 x 12.4
25	28.75	330	12	3,139	1,650	8 x 12.2	A771KS337M1ELAS012	-	-
25	28.75	390	12	3,139	1,950	8 x 12.2	A771KS397M1ELAS012	-	-
25	28.75	330	14	2,990	1,650	10 x 10.2	A771MN337M1ELAS014	A771MN337M1ELAV014	10 x 10.4
25	28.75	470	11	3,375	2,350	10 x 12.2	A771MS477M1ELAS011	A771MS477M1ELAV011	10 x 12.4
25	28.75	560	11	3,375	2,800	10 x 12.2	A771MS567M1ELAS011	A771MS567M1ELAV011	10 x 12.4
35	40.25	180	16	2,700	1,260	8 x 12.2	A771KS187M1VLAS016	-	-
35	40.25	220	16	2,700	1,540	8 x 12.2	A771KS227M1VLAS016	-	-
35	40.25	270	14	2,970	1,890	10 x 10.2	A771MN277M1VLAS014	A771MN277M1VLAV014	10 x 10.4
35	40.25	270	14	2,970	1,890	10 x 12.2	A771MS277M1VLAS014	A771MS277M1VLAV014	10 x 12.4
35	40.25	330	14	2,970	2,310	10 x 12.2	A771MS337M1VLAS014	A771MS337M1VLAV014	10 x 12.4
40	46.00	150	16	2,633	1,200	8 x 12.2	A771KS157M1GLAS016	-	-
40	46.00	200	14	2,970	1,600	10 x 10.2	A771MN207M1GLAS014	A771MN207M1GLAV014	10 x 10.4
40	46.00	220	14	2,970	1,760	10 x 12.2	A771MS227M1GLAS014	A771MS227M1GLAV014	10 x 12.4
40	46.00	270	14	2,970	2,160	10 x 12.2	A771MS277M1GLAS014	A771MS277M1GLAV014	10 x 12.4
50	57.50	82	13	2,565	820	8 x 12.2	A771KS826M1HLAS013	-	-
50	57.50	100	16	2,903	1,000	10 x 12.2	A771MS107M1HLAS016	A771MS107M1HLAV016	10 x 12.4
50	57.50	100	20	2,565	1,000	8 x 12.2	A771KS107M1HLAS020	-	-
50	57.50	120	16	2,903	1,200	10 x 10.2	A771MN127M1HLAS016	A771MN127M1HLAV016	10 x 10.4
50	57.50	120	16	2,903	1,200	10 x 12.2	A771MS127M1HLAS016	A771MS127M1HLAV016	10 x 12.4
50	57.50	150	16	2,903	1,500	10 x 12.2	A771MS157M1HLAS016	A771MS157M1HLAV016	10 x 12.4
63	72.45	47	20	2,430	592	8 x 12.2	A771KS476M1JLAS020	-	-
63	72.45	56	20	2,430	706	8 x 12.2	A771KS566M1JLAS020	-	-
63	72.45	68	18	2,700	857	10 x 10.2	A771MN686M1JLAS018	A771MN686M1JLAV018	10 x 10.4
63	72.45	82	18	2,700	1,033	10 x 12.2	A771MS826M1JLAS018	A771MS826M1JLAV018	10 x 12.4
63	72.45	100	18	2,700	1,260	10 x 12.2	A771MS107M1JLAS018	A771MS107M1JLAV018	10 x 12.4
(VDC)	(VDC)	120 Hz 20°C (µF)	100 kHz 20°C (mΩ)	100 kHz 125°C (mA)	20°C 2 min (µA)	D x L (mm)	( ) Represents Part Number Options	Anti-Vibration Version	D x L (mm) Anti-Vibration
Rated Voltage	Surge Voltage	Rated Capacitance	ESR	Ripple Current	Leakage Current	Case Size	KEMET Part Number		Case Size

(1) Electrical Parameters code. See Part Number System for available options.

## Installing

Solid Polymer Aluminum 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, verify the suitability for use in circuits sensitive to 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.

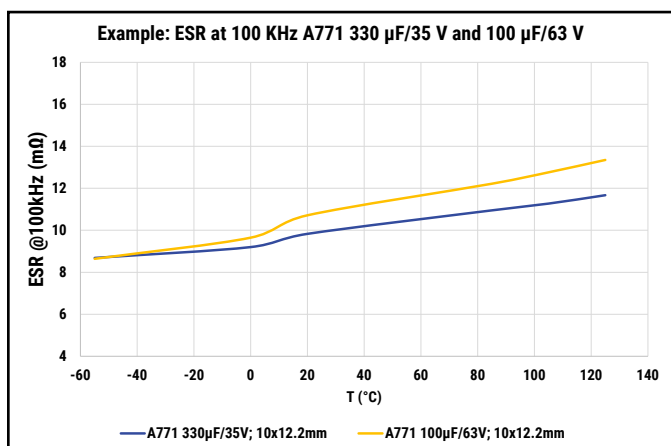
## ESR Temperature and Frequency Dependence

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

Due to a solid polymer electrolyte, Solid Polymer Aluminum 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.

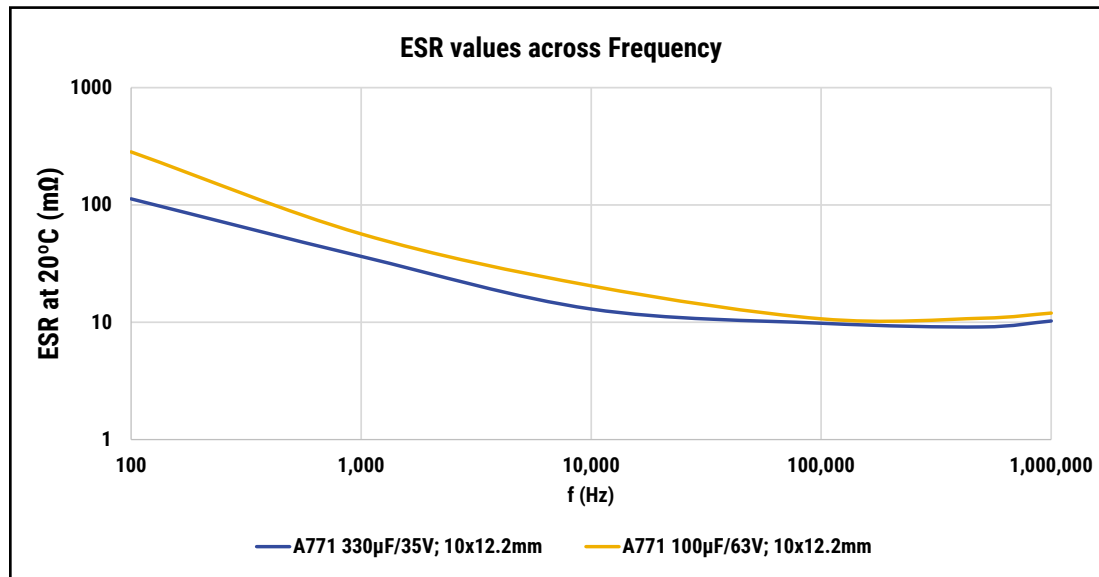
### Temperature Stability Characteristics





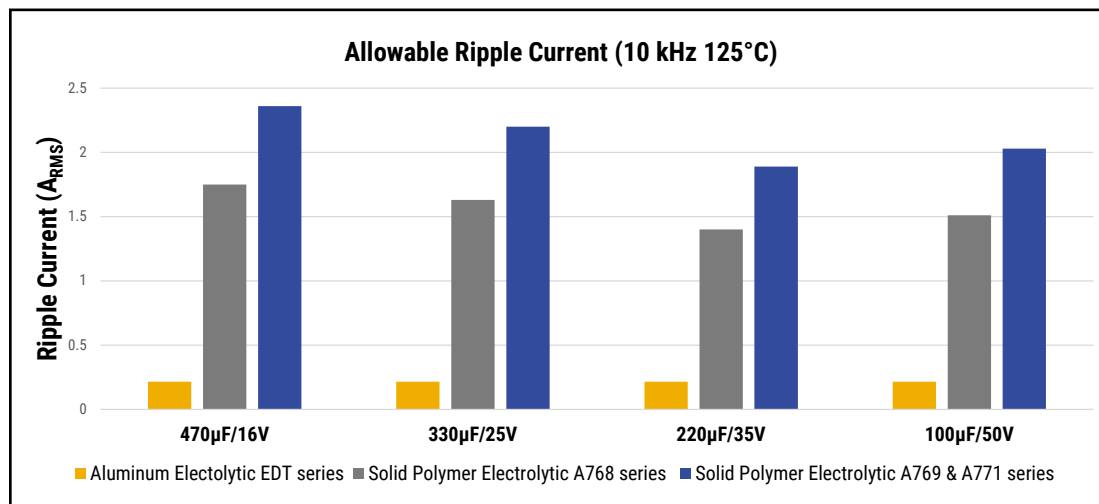
## ESR across Frequency Range

Due to a solid polymer electrolyte, the ESR curve of a solid polymer aluminum capacitor, is low and stable in high frequency range (10kHz to 1MHz).

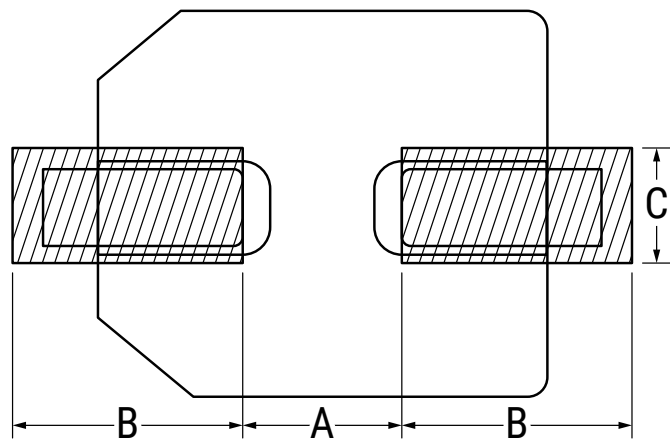


## High Resistance to Ripple Current

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

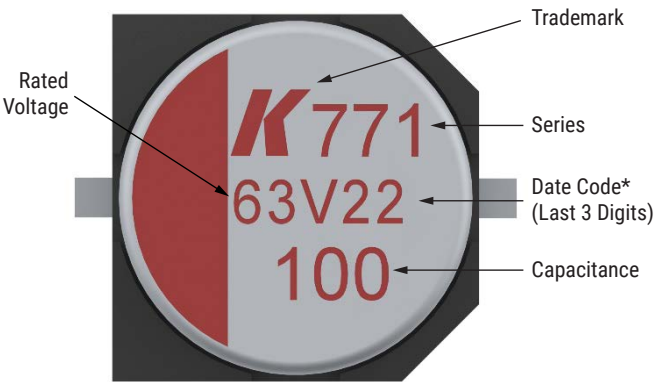


Landing Pad – Millimeters



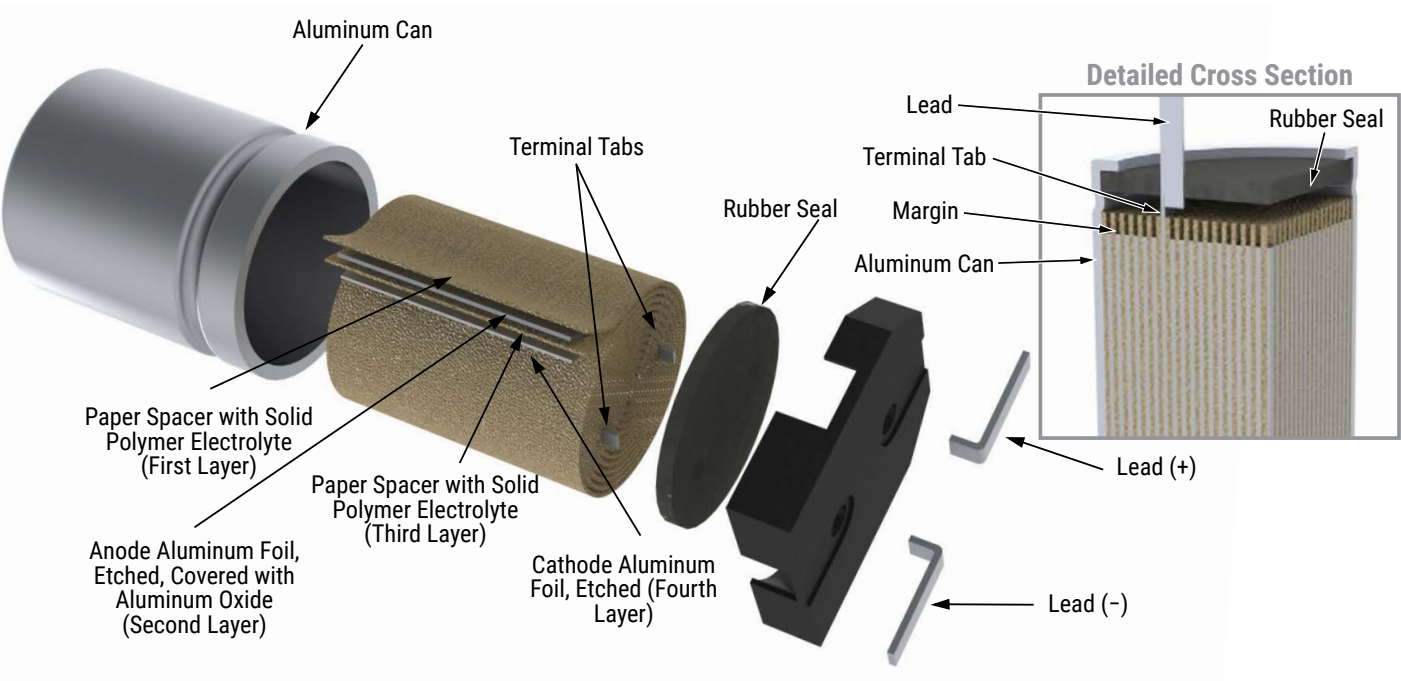
Diameter	A	B	C
8	3.1	4.2	2.2
10	4.5	4.4	2.2
10 (Anti-Vibration)	4.5	4.4	4.6

Marking



Date Code*	
1 <sup>st</sup> Digits = Rated Voltage	
Letter = Year Code	S = 2019
Final Digits = Week of the Year	01 = 1 <sup>st</sup> week of the Year to 52 = 52 <sup>nd</sup> week of the Year
Year Code	
S	2019
T	2020
U	2021
V	2022
W	2023
X	2024
Y	2025
Z	2026

Construction

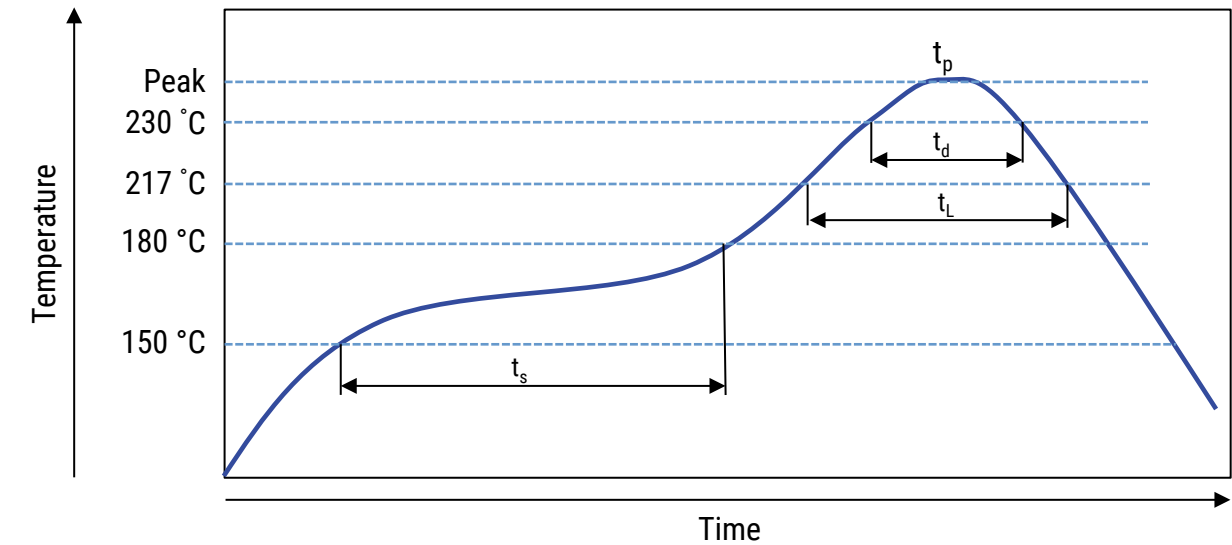


Re-Flow Soldering

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.
- Vapor 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	Preheat $t_s$	$t_L$	$t_d$	$t_p$	Reflow Number
Temperature (°C)	150 – 180	$\geq 217$	$\geq 230$	260 250	1 1 or 2
Time (seconds)	60 - 120	$\leq 50$	$\leq 40$	$\leq 5$	–



Technical drawing of a circular mechanical part. The front view (left) shows a circular part with a central hole. The outer diameter is  $380 \pm 2$ . The inner hole has a diameter of  $25 \pm 0.8$ . The distance from the center of the hole to the center of the part is  $13 \pm 0.2$ . The thickness of the part is  $2 \pm 0.5$ . The side view (right) shows the profile of the part, with a total height of  $97 \pm 1$  and a width of  $A \pm 0.5$ . The bottom view shows a width of  $B \pm 0.2$ .

Size Code	Diameter (mm)	Length (mm)	Reel Quantity/SPQ	Box Quantity	Reel	
					A	B
					±0.5	±0.2
KS	8	12.2	400	2,400	26	30
MN	10	10.2	500	3,000	26	30
MN (Anti-Vibration)	10	10.4	500	3,000	26	30
MS	10	12.2	400	2,400	26	30
MS (Anti-Vibration)	10	12.4	400	2,400	26	30

Technical drawing of a PCB layout for a 3-phase motor driver. The drawing includes a top view of the PCB and a side view of the motor.

**Top View Dimensions:**

- Overall width:  $W \pm 0.3$
- Overall length:  $L \pm 0.1$
- Distance between mounting holes:  $P \pm 0.1$
- Distance between component footprints:  $2.0 \pm 0.1$
- Distance from edge to mounting hole:  $4.0 \pm 0.1$
- Distance from edge to component footprint:  $B1 \pm 0.2$
- Distance from edge to component footprint:  $B0 \pm 0.2$
- Distance from edge to component footprint:  $T2 \pm 0.2$
- Distance from edge to component footprint:  $0.4 \pm 0.1$
- Mounting hole diameter:  $\varnothing 1.5^{+0.1}_{-0.0}$
- Distance from edge to mounting hole:  $1.75 \pm 0.1$
- Distance from edge to mounting hole:  $F \pm 0.1$

**Side View Dimensions:**

- Motor height:  $H \pm 0.1$
- Motor width:  $B0 \pm 0.2$
- Motor length:  $T2 \pm 0.2$

**Other Features:**

- Three phase motor footprints with polarity markings (+ and -).
- Three mounting holes for the motor.
- Three component footprints.

Size Code	Diameter	Length	W	P	F	B1	B0	T2
	(mm)	(mm)	±0.3	±0.1	±0.1	±0.2	±0.2	±0.2
KS	8.0	12.2	24.0	16.0	11.5	8.7	8.7	12.5
MN	10.0	10.0	24.0	16.0	11.5	10.7	10.7	10.1
MN (Anti-Vibration)	10.0	10.4	24.0	16.0	11.5	10.7	11.2	10.3
MS	10.0	12.2	24.0	16.0	11.5	10.7	10.7	12.5
MS (Anti-Vbration)	10.0	12.4	24.0	16.0	11.5	10.7	11.2	12.7

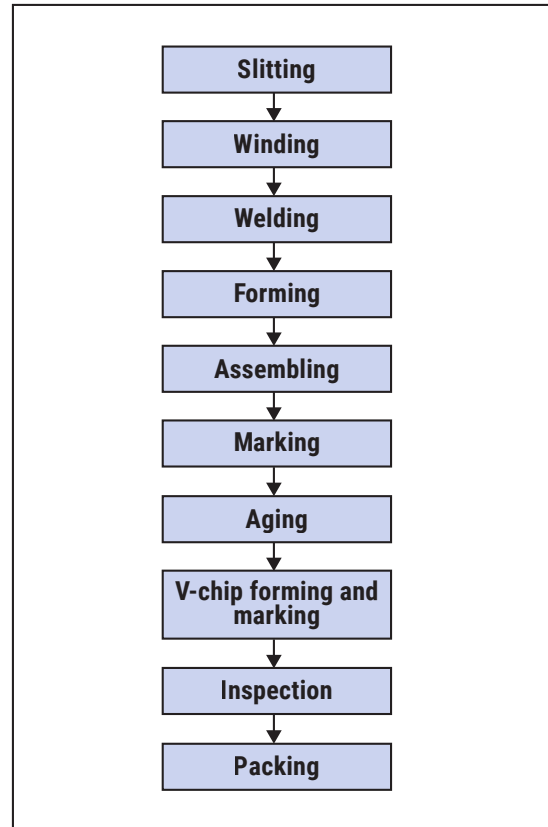
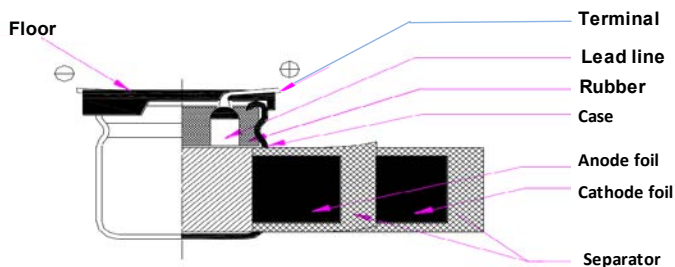
## Construction Data

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.

### 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. 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.

### 6. Dielectric Absorption

A phenomenon known as the 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.



## KEMET Electronics Corporation Sales Offices

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