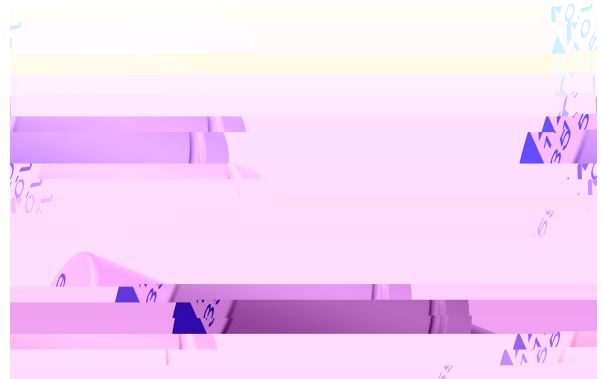


Applications

professional power amplifiers and industrial power supplies.

Benefits



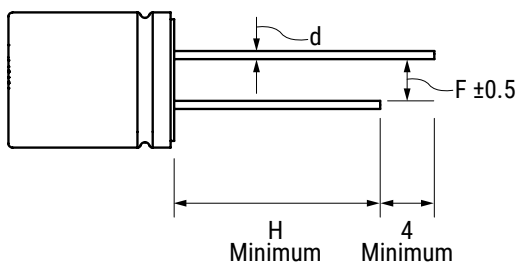
Part Number System

			significant figures specifies the				significant figures for ESR values.(mΩ)

Ordering Options Table

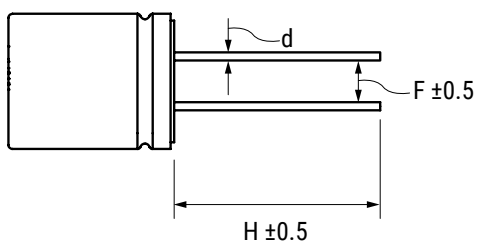
Diameter	Packaging Type	Lead Type	Lead Length (mm)	Packaging Code
Standard Bulk Packaging Options				
Standard Auto-Insertion Packaging Options				
Contact KEMET for other Lead and Packaging options ⁽¹⁾ Contact KEMET for custom Lead Length and options 3 to 10 mm				

Long Lead (Loose Standard Leads)



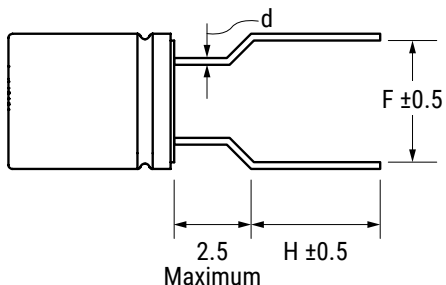
	Diameter				

Cut Lead



	Diameter				

Formed Lead



	Diameter				

Dimensions – Millimeters

Impedance Z Characteristics at 100 kHz

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 ≤ f < 1 kHz	1 kHz ≤ f < 10 kHz	10 kHz ≤ f < 100 kHz	100 kHz ≤ f < 500 kHz
Coefficient				

Test Method & Performance

Conditions	Load Life Test	Shelf Life Test
Performance	The following specifications will be satisfied when the capacitor is restored to 20°C.	
	Does not exceed 150% of the specified value	
	Does not exceed 150% of the specified value	
	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.	
	Does not exceed 150% of the specified value	
	Does not exceed 150% of the specified value	
	Does not exceed specified value	
Surge Voltage (Rated Voltage x 1.15 (V))		

Shelf Life & Re-Ageing

The capacitance, ESR and impedance of a capacitor will not change significantly after extended storage periods, however,

- The suitable storage condition for KEMET's conductive polymer aluminum solid electrolytic capacitors is +5° to +35°C

Re-Age Procedure

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

Environmental Compliance

equipment. All products in this catalog are produced to help our customers' obligations to guarantee their products and fulfill from all designs to fulfill the requirement of containing less than 0.1% of lead in any homogeneous material. KEMET will

Table 1 – Ratings & Part Number Reference

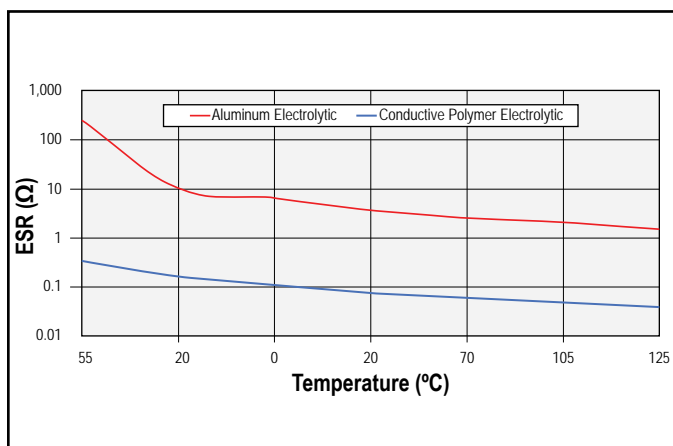
	Surge Voltage	Rated Capacitance 120 Hz 20°C (µF)	Case Size D x L (mm)	ESR 100 kHz (mΩ)	RC 100 kHz (mA)	RC 100 kHz (mA)	2 minutes (µA)	KEMET Part Number

(1) Please see packaging codes for options.

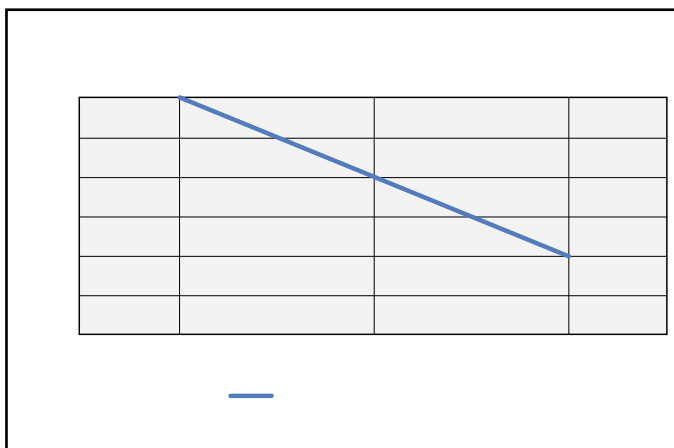
Installing

during soldering. The leakage current may increase after soldering or reflow soldering. Therefore, verify the suitability for use

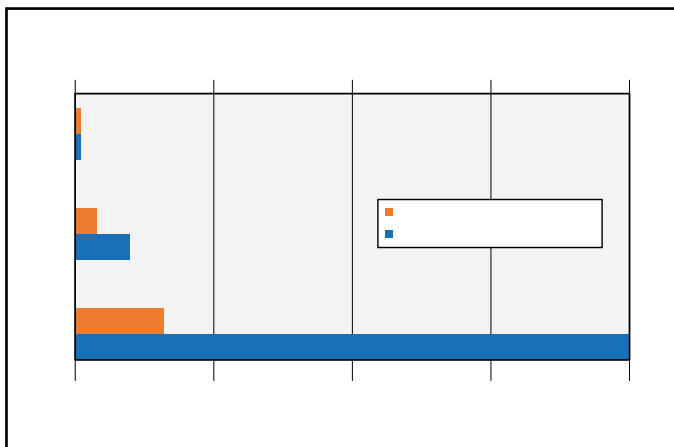
Temperature Stability Characteristics



Expected Life Calculation Chart

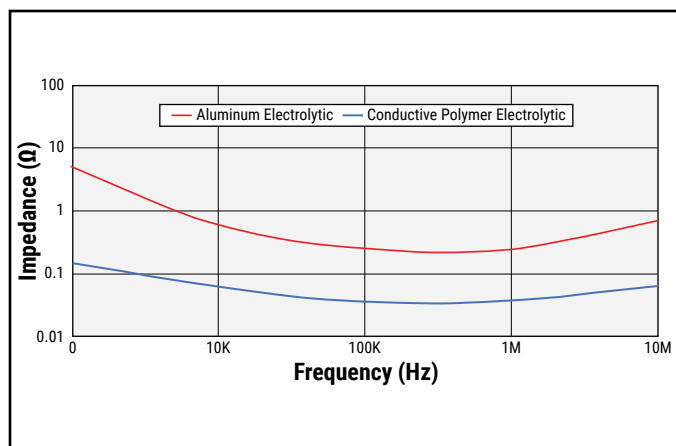


In this example, the life expectancy of a 2,000 hour polymer capacitor is significantly greater than that of a 2,000 hour

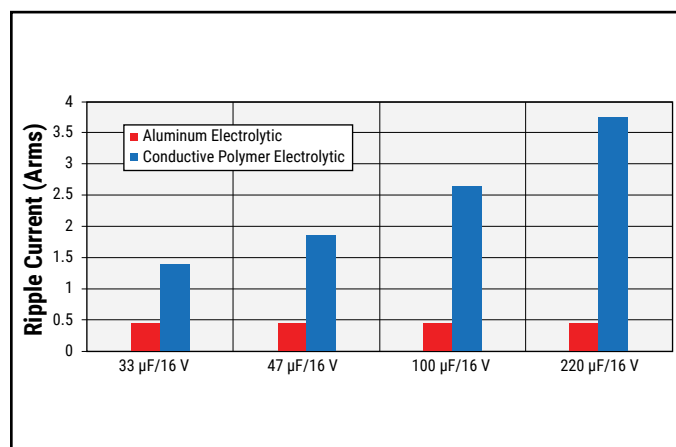


Ultra Low Impedance at High Frequency

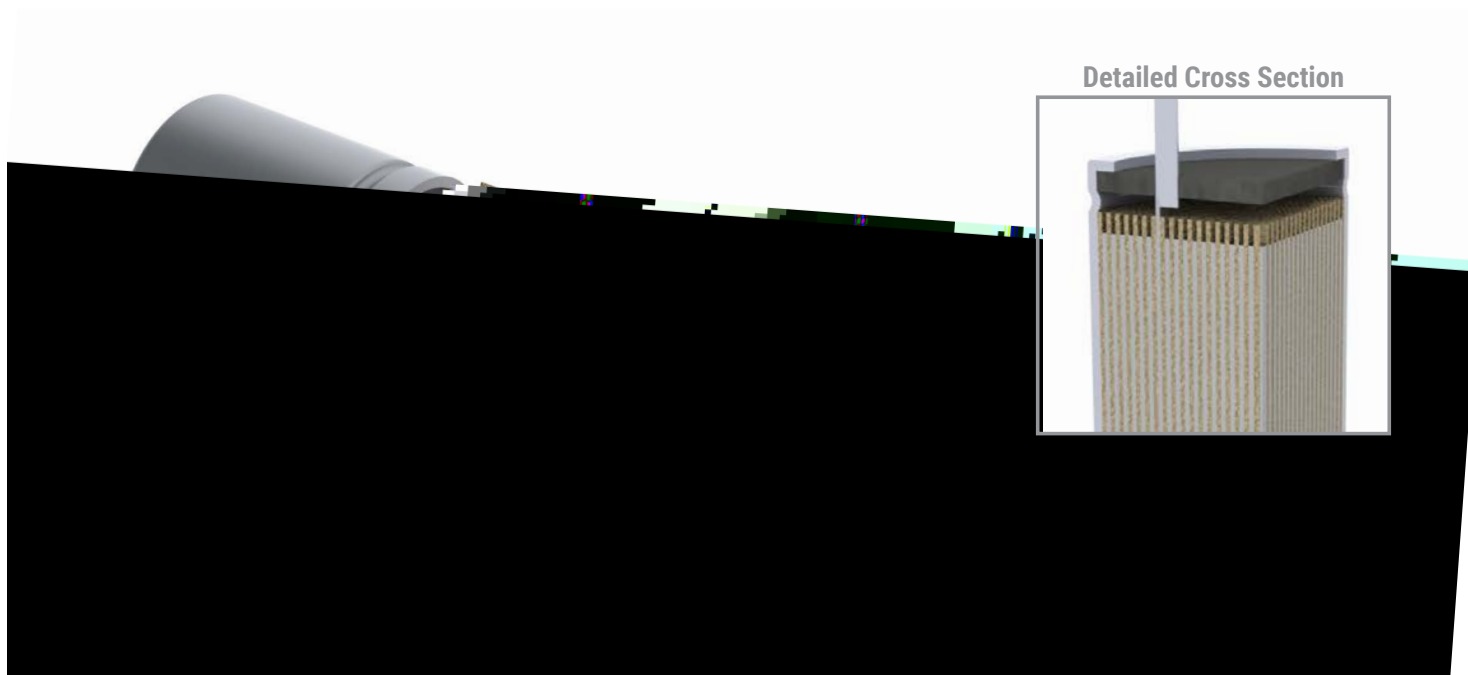
Due to a solid polymer electrolyte, the curve of a conductive polymer electrolytic capacitor (Z and ESR) is significantly lower

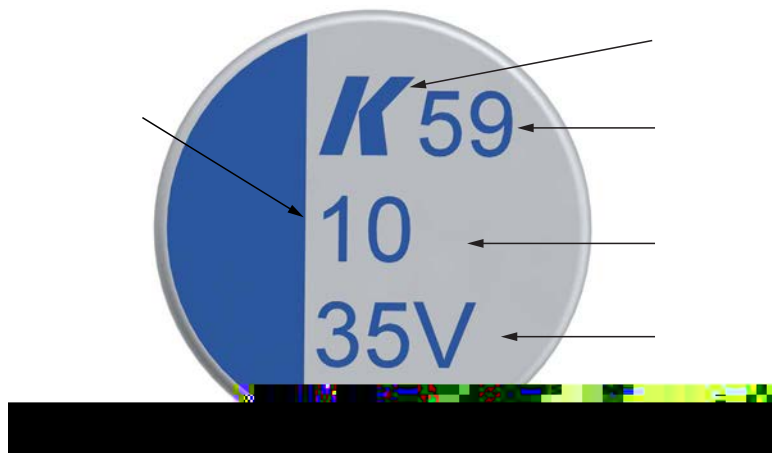


High Resistance to Ripple Current



Construction





Flow Soldering (not suitable for SMD parts)

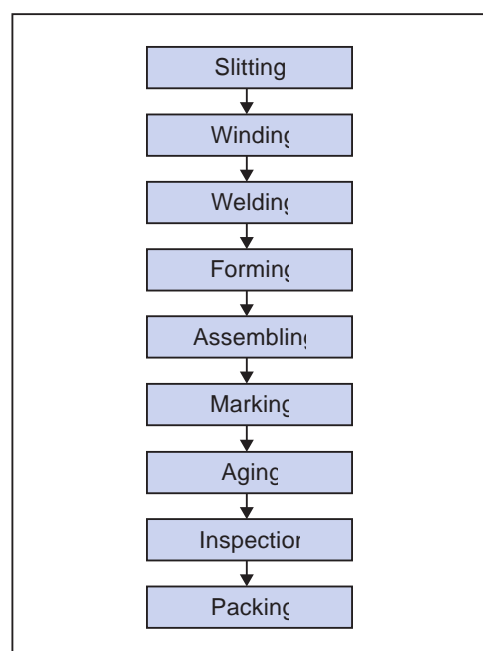
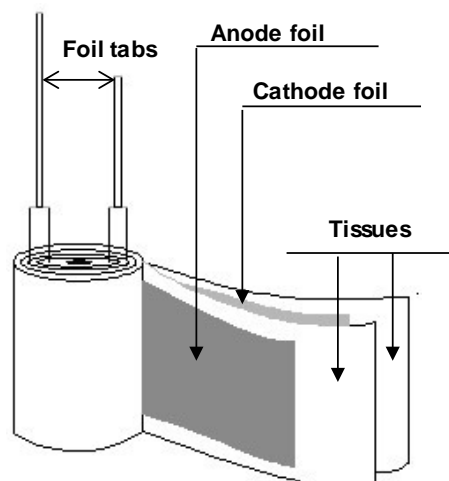
The soldering conditions should be within the specified conditions below:

- Do not exceed these limits and avoid repeated reflowing.

Flow Soldering

	Temperature (°C)	Maximum Time (Seconds)	Maximum Repetitions

Construction Data



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.

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

1.1 Safety Precautions

2. Intrinsic Properties

2.1 Operating

in high leakage currents which could subsequently cause short circuit failure and possibly explosion and fire. Correctly

2.2 Non-Operating

3. Disposal

therefore be treated as a hazardous waste and advice should be sought from the local office of the Environmental Agency

Product Safety cont'd

4. Unsafe Use

5. Mounting

6. Fumigation

7. Dielectric Absorption

KEMET Electronics Corporation Sales Offices

For a complete list of our global sales offices, please visit www.kemet.com/sales.

Disclaimer

All product specifications, statements, information and data (collectively, the "Information") in this datasheet are subject to change. The customer is responsible for

Statements of suitability for certain applications are based on KEMET Electronics Corporation's ("KEMET") knowledge of typical operating conditions for such applications, but are not intended to constitute – and KEMET specifically disclaims – any warranty concerning suitability for a specific customer application or use.

(such as installation of protective circuitry or redundancies) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or