PEH534 Series, +105°C



Overview

KEMET's PEH534 is a long-life electrolytic capacitor designed to offer high ripple current capability and low mounting cost. Low ESR is the result of a very low resistive paper/electrolyte system. Low ESR, together with the TDC thermal concept, gives the PEH534 a high ripple current capability.

Applications

Typical applications for KEMET's PEH534 capacitor include switch mode power supplies (SMPS), drives, welding equipment, uninterruptible power supplies (UPS), and other power electronic applications where high current ratings and compact size are important.

Benefits

- Snap-In
- 3,000 hours at +105°C (V_R, I_R applied)
- PCB mounting
- Low ESR and ESL
- · High ripple current



Part Number System

PEH534	J	ВС	456	0	M	2
Series	Voltage (VDC)	Size Code	Capacitance Code (µF)	Version	Capacitance Tolerance	Termination
Snap-In type Aluminum Electrolytic	J = 35 M = 63 P = 100 R = 200 S = 250 U = 350 V = 400 Y = 450	See Dimension Table	The second two digits indicate the two most significant digits of the capacitance value. The first digit indicates the total number digits.	0 = Standard	M = ±20%	See Termination Table



Performance Characteristics

Item		Performance Characteristics					
Capacitance Range	150 – 22,000 μF	150 – 22,000 µF					
Rated Voltage	35 – 450 VDC	35 – 450 VDC					
Operating Temperature	-40 to +105°C						
Capacitance Tolerance	±20% at 100 Hz / +20°C						
Operational Lifetime	D (mm)	Rated Voltage and Ripple Current at +105°C (hours)	Rated Voltage at +105°C (hours)				
·	22 – 40	3,000	4,000				
Shelf Life	4 years at +40°C 0 VDC	4 years at +40°C 0 VDC					
Lankana Cumank	I = 0.003 CV (μA)						
Leakage Current	C = rated capacitance (μF), V = rated voltage (VDC). Voltage applied for 5 minutes at +20°C.						
	Procedure	Require	ments				
Vibration Test Specifications	0.75 mm displacement amplitude or 10 g maximum acceleration. Vibration applied for three 2-hour sessions at 10 – 500 Hz (Capacitor clamped by body).	No leakage of electrolyte or other visible damage. Deviations in c					
Standards	IEC 60384-4 long life grade 40/105/5	6, in accordance with CECC 30 301-80	9				

Test Method & Performance

Endurance Life Test					
Conditions	Performance				
Temperature	+105°C	+105°C			
Test Duration	2,000 hours				
Ripple Current	Maximum ripple current specified in table				
Voltage	The sum of DC voltage and the peak AC voltage must no	t exceed the rated voltage of the capacitor			
Performance	The following specifications will be satisf	ied when the capacitor is tested at +20°C:			
Conscitones Change	≤ 160 V	Within 15% of the initial value			
Capacitance Change	> 160 V Within 10% of the initial value				
Equivalent Series Resistance	Does not exceed 200% of the initial value				
Leakage Current	Does not exceed leakage current limit				



Dimensions – Millimeters

		Dimensio	Approximate					
DXL	Size Code	D1	L1	Weight				
		±0.5	±1.0	Grams				
25 x 30	BC	25.5	31	21				
25 x 35	BD	25.5	36	24				
25 x 40	BE	25.5	41	27				
25 x 45	BF	25.5	46	30				
25 x 50	BG	25.5	51	33				
30 x 25	СВ	30.5	26	24				
30 x 30	CC	30.5	31	29				
30 x 35	CD	30.5	36	34				
30 x 40	CE	30.5	41	39				
30 x 45	CF	30.5	46	45				
30 x 50	CG	30.5	51	51				
35 x 25	DB	35.5	26	32				
35 x 30	DC	35.5	31	40				
35 x 35	DD	35.5	36	48				
35 x 40	DE	35.5	41	56				
35 x 45	DF	35.5	46	64				
35 x 50	35 x 50 DG 35.5 51 72							
Note: Add 0.5 mm to D and 1 mm to L for Sleeving								



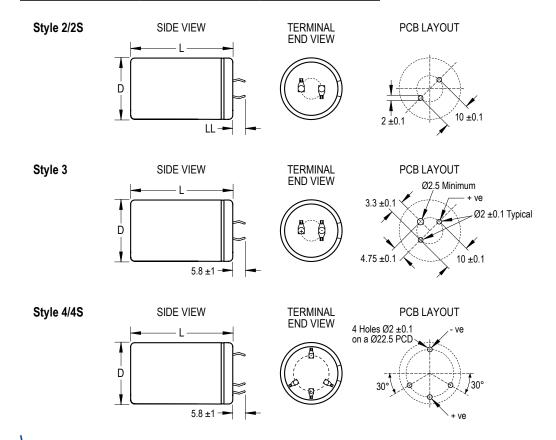
Termination Tables

Termination Code	2	28	2	4	48
Diameter (mm)	2	25	3		
25	•	•	•		
30	•	•	•		
35	•	•	•	•	•

Mounting: These capacitors are designed to be mounted by their terminations alone and may be used in any position.

Dummy pins on 4-pin decks must be isolated.

Termination Code	Termination Style	LL ±1				
Standard Termination Option						
2 2 Pin 6.3						
Other Termination Options						
2S	2 Pin	4				
3 3 Pin 4						
4	4 Pin	6.3				
4S 4 Pin 4						
Dimensions in mm						





Shelf Life

The capacitance, ESR and impedance of a capacitor will not change significantly after extended storage periods, however the leakage current will very slowly increase. KEMET products are particularly stable and allow a shelf life in excess of three years at 40°C. See sectional specification under each product series for specific data.

Re-age (Reforming) Procedure

Apply the rated voltage to the capacitor at room temperature for a period of one hour, or until the leakage current has fallen to a steady value below the specified limit. During re-aging a maximum charging current of twice the specified leakage current or 5 mA (whichever is greater) is suggested.

Reliability

The reliability of a component can be defined as the probability that it will perform satisfactorily under a given set of conditions for a given length of time.

In practice, it is impossible to predict with absolute certainty how any individual component will perform; thus, we must utilize probability theory. It is also necessary to clearly define the level of stress involved (e.g. operating voltage, ripple current, temperature and time). Finally, the meaning of satisfactory performance must be defined by specifying a set of conditions which determine the end of life of the component.

Reliability as a function of time, R(t), is normally expressed as: R(t)= $e^{-\lambda t}$ where R(t) is the probability that the component will perform satisfactorily for time t, and λ is the failure rate.

Failure Rate

The failure rate is the number of components failing per unit time. The failure rate of most electronic components follows the characteristic pattern:

- · Early failures are removed during the manufacturing process.
- The operational life is characterized by a constant failure rate.
- The wear out period is characterized by a rapidly increasing failure rate.

The failures in time (FIT) are given with a 60% confidence level for the various type codes. By convention, FIT is expressed as 1 x 10⁻⁹ failures per hour. Failure rate is also expressed as a percentage of failures per 1,000 hours.

e.g., $100 \text{ FIT} = 1 \times 10^{-7} \text{ failures per hour} = 0.01\%/1,000 \text{ hours}$

End of Life Definition

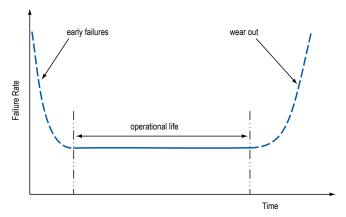
Catastrophic Failure: short circuit, open circuit or safety vent operation Parametric Failure:

- Change in capacitance > ±10%
- · Leakage current > specified limit
- ESR > 2 x initial ESR value



MTBF

The mean time between failures (MTBF) is simply the inverse of the failure rate. MTBF= $1/\lambda$



The failure rate is derived from our periodic test results. The failure rate (λ_R) is, therefore, only given at test temperature for life tests. An estimation is also given at 40°C. The expected failure rate for this capacitor range is based on our periodic test results for capacitors with structural similarity. Failure rate is frequently quoted in FIT (Failures In Time) where 1 FIT = 1 x 10⁻⁹ failures per hour. Failure rate per hour includes both catastrophic and parametric failures.

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 world wide 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.



Table 1 – Ratings & Part Number Reference

VOC Capacitance Size Code Size Cod		Rated	I Caca Siza I Pinnia Current Maximum I ESP Maximum						
20 10 12 20 10 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 12 20 20	VDC	Capacitance	Size Code	Case Size	Kipple Culle	iit waxiiiuiii	LON MAXIIIIIIII		Part Number
35 6800 BD 25 x 35 27 9.0 43 34 PERSABDERSON() 35 8200 CB 30 x 55 2.9 9.8 40 31 PERSABDERSON() 35 8200 CC 30 x 30 3.5 12.1 31 22 PERSABDERSON() 36 8200 CD 35 x 45 3.1 10.0 37 2.9 PERSABDERSON() 37 82 8200 CD 37 25 x 45 3.1 10.0 37 2.9 PERSABDERSON() 38 8200 CD 37 25 x 45 3.1 10.0 37 2.9 PERSABDERSON() 38 15000 CD 25 x 45 3.4 4 14.3 3.3 2.2 PERSABDERSON() 38 15000 CD 37 25 x 45 3.4 4 14.3 2.5 2.1 11.3 PERSABDERSON() 38 15000 CD 37 25 x 45 3.4 4 14.3 2.5 2.1 11.3 PERSABDERSON() 38 15000 CD 37 25 x 45 3.4 4 14.3 2.5 2.1 11.3 PERSABDERSON() 38 2000 CD 37 25 x 45 3.4 4 14.3 2.5 2.1 11.3 PERSABDERSON() 38 2000 CD 38 x 35 6.2 6.3 2.0 11.4 11.1 PERSABDERSON() 38 2000 CD 38 x 35 6.2 6.1 14.4 21 17 PERSABDERSON() 38 2000 CD 38 x 30 6.2 6.1 14.4 11 PERSABDERSON() 38 2000 CD 38 x 30 6.2 6.1 14.4 11 PERSABDERSON() 38 2000 CD 38 x 30 6.2 6.1 14.4 11 PERSABDERSON() 38 2000 CD 38 x 30 3.1 11.2 4.4 2 PERSABDERSON() 39 22 PERSABDERSON() 30 30 4700 CE 38 x 30 3.1 11.2 4.4 2 2 PERSABDERSON() 30 30 4700 CD 38 x 30 3.1 11.2 4.4 2 2 PERSABDERSON() 30 30 400 CD 38 x 30 3.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 4.4 2 2 PERSABDERSON() 30 6800 CD 38 x 40 4.5 17.1 11.2 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2 13.1 13.1 12.4 12.4 12.2				D x L (mm)			* *		
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VDC Rated Capacitance Size Code Case Size Ripple Current ESR Part Number									,
<u>. </u>	VDC	Rated Capacitance	Size Code	Case Size	Ripple	Current	ES	SR	Part Number

⁽¹⁾ Termination code: See Termination Tables for available options.



Table 1 – Ratings & Part Number Reference cont'd

VDC	Rated Capacitance	Size Code	Case Size	Ripple Current Maximum		ESR Maximum		Part Number
	100 Hz 20°C (μF)		D x L (mm)	100 Hz 105°C (A)	20 kHz 40°C (A)	100 Hz 20°C (mΩ)	100 kHz 20°C (mΩ)	
350	470	DE	35 x 40	1.6	9.7	260	160	PEH534UDE3470M(1)
350	560	DF	35 x 45	1.8	10.9	220	140	PEH534UDF3560M(1)
400	150	BD	25 x 35	0.8	5.1	680	410	PEH534VBD3150M(1)
400	150	СВ	30 x 25	0.8	5.2	680	400	PEH534VCB3150M(1)
400	220	BF	25 x 45	1.0	6.5	470	280	PEH534VBF3220M(1)
400	220	CD	30 x 35	1.0	7.1	460	270	PEH534VCD3220M(1)
400	220	DC	35 x 30	1.1	7.0	460	280	PEH534VDC3220M(1)
400	330	CF	30 x 45	1.4	9.2	310	180	PEH534VCF3330M(1)
400	330	DD	35 x 35	1.4	8.7	310	190	PEH534VDD3330M(1)
400	390	CG	30 x 50	1.5	10.2	260	160	PEH534VCG3390M(1)
400	390	DE	35 x 40	1.5	9.8	260	160	PEH534VDE3390M(1)
400	470	DF	35 x 45	1.8	11.1	220	130	PEH534VDF3470M(1)
400	560	DG	35 x 50	2.0	12.3	180	110	PEH534VDG3560M(1)
450	150	BE	25 x 40	0.9	5.8	570	330	PEH534YBE3150M(1)
450	150	CC	30 x 30	0.9	6.1	560	330	PEH534YCC3150M(1)
450	150	DB	35 x 25	0.9	5.9	570	330	PEH534YDB3150M(1)
450	220	CE	30 x 40	1.2	8.1	380	220	PEH534YCE3220M(1)
450	220	DC	35 x 30	1.2	7.5	390	230	PEH534YDC3220M(1)
450	330	CG	30 x 50	1.5	10.3	260	150	PEH534YCG3330M(1)
450	330	DE	35 x 40	1.5	9.9	260	150	PEH534YDE3330M(1)
450	390	DF	35 x 45	1.7	11.3	220	130	PEH534YDF3390M(1)
450	470	DG	35 x 50	1.9	12.4	180	110	PEH534YDG3470M(1)
VDC	Rated Capacitance	Size Code	Case Size	Ripple Current ESR		SR	Part Number	

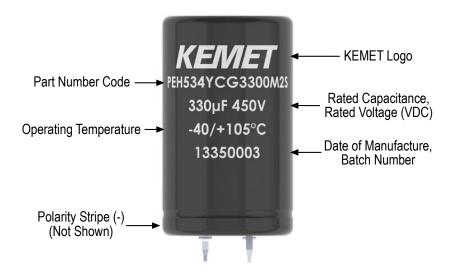
⁽¹⁾ Termination code: See Termination Tables for available options.

Mechanical Data

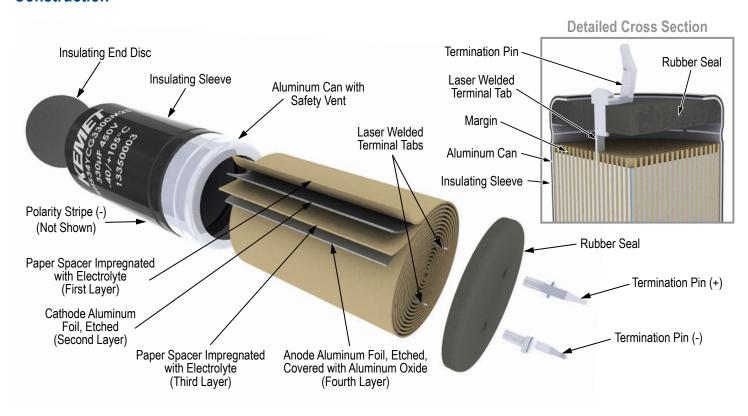
The capacitor may be mounted in any position. PEH534 is supplied with an insulation sleeve. Voltage proof of the insulation sleeve = 2.5 kVDC (1 min). The minus pole is marked on the case surface. UL recognized sleeving is available for custom parts in this range, upon request. (UL No. E358957)



Marking



Construction





Construction cont'd

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 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 sleeved and 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

A sample from each batch is taken by the quality department after completion of the production process.

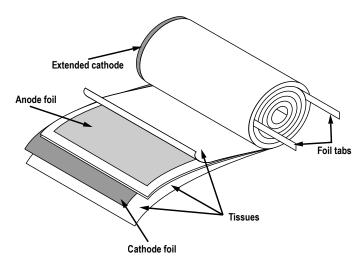
The following tests are applied and may be varied at the request of the customer. In this case the batch, or special procedure, will determine the course of action.

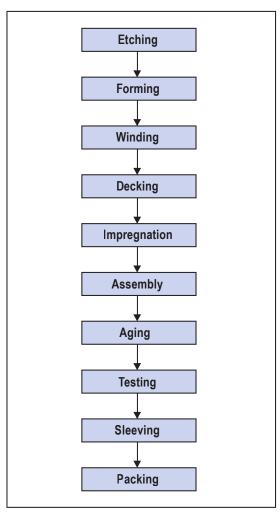
Electrical:

- Leakage current
- Capacitance
- ESR
- Impedance
- Tan Delta

Mechanical/Visual:

- Overall dimensions
- · Torque test of mounting stud
- Print detail
- Box labels
- Packaging, including packed quantity







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Although all product—related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicted or that other measures may not be required.

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EKXG351ETD6R8MJ16S EKZM160ETD471MHB5D EPA-201ELL151MM25S NCD681K10KVY5PF NRLF103M25V35X20F

KM4700/16 KME50VB100M-8X11.5 RXJ222M1EBK-1625 SG220M1CSA-0407 ES5107M016AE1DA ESX472M16B MAL211929479E3

40D506F050DF5A TE1202E 36DA273F050BB2A KME25VB100M-6.3X11 511D336M250EK5D 511D337M035CG4D

515D477M035CG8PE3 052687X EKMA500ELL4R7ME07D EKRG100ETC221MF09D NRE-S560M16V6.3X7TBSTF

ERZA630VHN182UP54N MAL214099813E3 MAL211990518E3 MAL204281229E3 NEV680M35EF 686KXM050M ERS1VM222L30OT

EGW2GM150W16OT EGS2GM6R8G12OC EHS2GM220W20OT ERF1VM222L30OT ERF1KM151G20OT EKZE500ELL101MHB5D

EKMM251VSN221MP25S RGA221M1HBK-1016G