KEMET
a YAGEO company

Capacitors

Hybrid Axial & Radial Crown Capacitors

Overview

KEMET's PHA/PHH225 is a conductive polymer hybrid capacitor with outstanding electrical performance. The device has a polarized all-welded design, tinned copper wire leads, and a negative pole connected to the case. The winding is housed in a cylindrical aluminum can with a high purity aluminum lid and high-quality rubber gasket. Low ESR is conditioned by a highly conductive polymer (PEDOT/PSS) and an all-welded design. The polymer system creates an electrical pathway between the anodic oxide layer and the cathode through a mechanical separator-paper. The winding is impregnated with liquid electrolyte that results to self-healing features of the capacitor.
Both series are AEC-Q200 compliant

RoHS REACH COMPLIANT HF Halogen Free

Part Number System

PHx225 M KP 337 R Q Ex

- Ex – Packaging
- Q – Capacitance Tolerance
- R – Version
- 337 – Capacitance Code (µF)
- KP – Size Code
- M – Voltage
- PHx225 – Series- PHA – Axial, PHH – Radial Crown

- Refer to KEMET datasheets for full details

Electrical Characteristics

Capacitance	370 to 1,100 µF
Operating Temperature	-40°C to 125°C
Voltage Rating	40 to 63 VDC
Operating Lifetime	More than 3,000 hours at 125°C

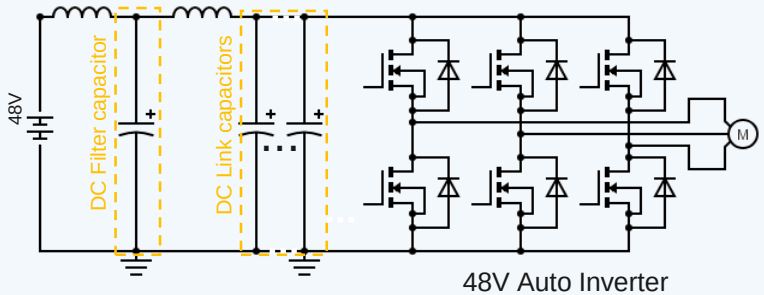
Voltage and Capacitance Offerings

C_R	D x L	I_{RAC}[a] T_c=70°C 100kHz	I_{RAC}[a] T_c=90°C 100kHz	I_{RAC}[a] T_c=105°C 100kHz	I_{RAC}[b] T_c=125°C 100kHz	ESR (max) 20°C 100Hz	ESR (max) -40 to 125°C 100kHz	Part Number	
µF	mm	A_{RMS}	A_{RMS}	A_{RMS}	A_{RMS}	mOhm	mOhm		
				40VDC (U_R)					
1,100	18x35	40.9	33.4	27.0	15.5	80	6.0	PHA225KLP4110QE1	PHH225KLP4110QE4
				63VDC (U_R)					
370	16x35	39.5	33.1	26.5	16.2	145	6.1	PHA225MKP3370QE1	PHH225MKP3370QE4
380	18x27	36.8	31.0	25.3	15.3	147	7.1	PHA225MLL3380QE1	PHH225MLL3380QE4
560	18x35	40.9	33.4	27.0	15.5	92	6.0	PHA225MLP3560QE1	PHH225MLP3560QE4

[a] 3,000 hours
[B] 2,000 hours

Applications

- Automotive
  - DC Link
  - DC Filtering
- Industrial
  - SMPS



48V Auto Inverter