

**Ordering code:** PAM 68-40.0 cv2d  
**Applications:** AC/DC capacitor for general use in power electronics also for nonsinusoidal voltages and currents  
**Standard:** acc. to IEC 61071:2007

**Characteristics**

Rated capacitance	<b>C<sub>N</sub></b>	40 µF ±10%
Rated a.c. voltage	<b>U<sub>N AC</sub></b>	680 V a.c.
Rated d.c. voltage	<b>U<sub>N DC</sub></b>	1120 V d.c.
Max. rms voltage (sinusoidal)	<b>U<sub>rms</sub></b>	480 V
Non-recurrent surge voltage	<b>u<sub>s</sub></b>	1680 V
Rated energy	<b>W<sub>N</sub></b>	25.1 Ws
Maximum current	<b>I<sub>max</sub></b>	16 A
Maximum peak current	<b>î</b>	0.4 kA
Maximum surge current	<b>I<sub>s</sub></b>	1.1 kA
Series resistance	<b>R<sub>s</sub></b>	8 mΩ
dielectric dissipation factor	<b>tanδ<sub>o</sub></b>	2 x 10 <sup>-4</sup>
insulation strength	<b>C x R<sub>is</sub></b>	5000 s
Self inductance	<b>L<sub>e</sub></b>	120 nH

**thermal characteristics**

Lowest operating temperature	<b>Θ<sub>min</sub></b>	-25 °C
Maximum operating temperature	<b>Θ<sub>max</sub></b>	85 °C
storing temperature	<b>Θ<sub>storage</sub></b>	-40..+85 °C
thermal resistance	<b>R<sub>th</sub></b>	6.9 K/W

**test parameters**

test voltage between terminals	<b>U<sub>TT</sub></b>	1680 V DC/10s
A.C. voltage test terminal/container	<b>U<sub>TC</sub></b>	3000 V AC/10s

**failure rate**

reference service life	100 FIT*
at Θ <sub>hotspot</sub>	100000 h
	≤70 °C

\* See FIT-RATE diagram on pg.4

**Dimensions**

Rated diameter	<b>D<sub>1</sub></b>	45 (±0.5) mm
Length of the case	<b>L<sub>1</sub></b>	143 (±2.5) mm
Length of the terminals	<b>L<sub>2</sub></b>	12 (+3) mm
distance terminals	<b>a</b>	13.5 (±1) mm
Terminal		DF 6.3 mm
base mounting stud	<b>G<sub>B</sub>xL<sub>B</sub></b>	M8x10 (+1) mm
Clearance in air	<b>L</b>	6.5 mm
Creepage distance	<b>K</b>	10 mm

**Approx weight** 0.3 kg

**Mechanical characteristics**

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	overpressure disconnecter
Terminals	dual tab connectors 6.3 x 0.8 mm / plastic lid
Impregnant	liquid impregnants, no PCB
Fire load	12MJ

**outline drawing**

