

**Ordering code:** PAM 42-200.0 cv5 (J)  
**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>	200 µF ±5%
Rated d.c. voltage	<b>U<sub>N DC</sub></b>	700 V d.c.
Rated a.c. voltage	<b>U<sub>N AC</sub></b>	420 V a.c.
Max. rms voltage (sinusoidal)	<b>U<sub>rms</sub></b>	300 V
Non-recurrent surge voltage	<b>u<sub>s</sub></b>	1050 V
Rated energy	<b>W<sub>N</sub></b>	49 Ws
Maximum current	<b>I<sub>max</sub></b>	50 A
Maximum peak current	<b>î</b>	1.8 kA
Maximum surge current	<b>I<sub>s</sub></b>	5 kA
Series resistance	<b>R<sub>s</sub></b>	1.4 mΩ
dielectric dissipation factor	<b>tanδ<sub>o</sub></b>	2 x10 <sup>-4</sup>
Self discharge time const.	<b>C x R<sub>is</sub></b>	5000 s
Self inductance	<b>L<sub>e</sub></b>	150 nH

**thermal characteristics**

lower category temperature	<b>Θ<sub>min</sub></b>	-25 °C
upper category temperature	<b>Θ<sub>max</sub></b>	85 °C
thermal resistance	<b>R<sub>th</sub></b>	3.3 K/W <sup>1)</sup>
storing temperature	<b>Θ<sub>storage</sub></b>	-40..+85 °C

**test parameters**

Test voltage between terminals	<b>U<sub>TT</sub></b>	1050 V DC/10s
A.C. voltage test terminals/case	<b>U<sub>TC</sub></b>	3000 V AC/10s

**Statistical lifetime**

<b>Failure rate</b>	>200000 h
at Θ <sub>hotspot</sub>	< 100 FIT*
	≤70 °C

\* See FIT-RATE diagram on p.4

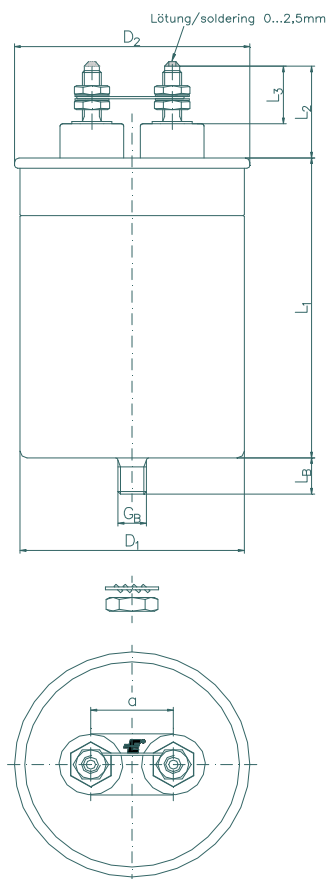
**Dimensions**

Rated diameter	<b>D<sub>1</sub></b>	85 (±1)	mm
Maximum diameter	<b>D<sub>2</sub></b>	90.5 (±0.5)	mm
Length of the case	<b>L<sub>1</sub></b>	118 (±2)	mm
Length of the terminals	<b>L<sub>2</sub></b>	41 (±2)	mm
Length of the terminals distance terminals	<b>L<sub>3</sub></b>	25 (±1)	mm
Terminal	<b>a</b>	35 (±1)	mm
Terminal		M8x22.5 mm	
base mounting stud	<b>G<sub>B</sub>xL<sub>B</sub></b>	M12x16 (+1)	mm
Clearance in air	<b>L</b>	15	mm
Creepage distance	<b>K</b>	25	mm
<b>Approx weight</b>		0.9	kg

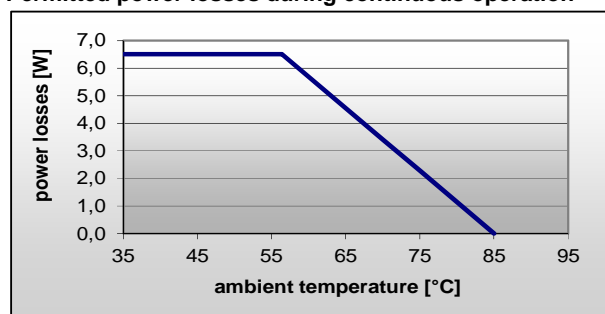
**Mechanical characteristics**

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can (folded edge)
Protection	without internal fuse, to be used only in uncritical environment
Terminals	Screw terminals on plastic insulators
Impregnant	no liquid impregnants, filled with solidified PUR resin, non PCB
Fire load	36MJ

**outline drawing**



**Permitted power losses during continuous operation**



<sup>1)</sup> R<sub>th</sub> ambient to Hotspot temperature

30°C	4.4 K/W
50°C	3.8 K/W
70°C	3.3 K/W