

**Ordering code:** PAM 50-100.0 cv5S (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>	100 µF ±5%
Rated a.c. voltage	<b>U<sub>N AC</sub></b>	500 V a.c.
Rated d.c. voltage	<b>U<sub>N DC</sub></b>	840 V d.c.
Max. rms voltage (sinusoidal)	<b>U<sub>rms</sub></b>	360 V
Non-recurrent surge voltage	<b>u<sub>s</sub></b>	1260 V
Rated energy	<b>W<sub>N</sub></b>	35.3 Ws
Maximum current	<b>I<sub>max</sub></b>	40 A
Maximum peak current	<b>î</b>	0.9 kA
Maximum surge current	<b>I<sub>s</sub></b>	2.7 kA
Series resistance	<b>R<sub>s</sub></b>	4.3 mΩ
dielectric dissipation factor	<b>tan δ<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>	5.1 K/W

#### test parameters

test voltage between terminals	<b>U<sub>TT</sub></b>	1260 V DC/10s
A.C. voltage test terminal/container	<b>U<sub>TC</sub></b>	3000 V AC/10s

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

\* See FIT-RATE diagram on pg.4

#### Dimensions

Rated diameter	<b>D<sub>1</sub></b>	65 (±1)	mm
Length of the case	<b>L<sub>1</sub></b>	135 (±2)	mm
Length of the terminals	<b>L<sub>2</sub></b>	23 (-2)	mm
Length of the terminals	<b>L<sub>3</sub></b>	12.5 (±1)	mm
distance terminals	<b>a</b>	22 (±1)	mm
Terminal		M6x12.5	mm
base mounting stud	<b>G<sub>B</sub>xL<sub>B</sub></b>	M12x16 (+1)	mm
Clearance in air	<b>L</b>	10	mm
Creepage distance	<b>K</b>	21	mm

**Approx weight** 0.5 kg

#### Mechanical characteristics

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	overpressure disconnecter
Terminals	threaded stud M6 on integrated plastic
Impregnant	liquid impregnants, no PCB
Fire load	20MJ

#### outline drawing

