

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	C_N	100 µF ±5%
Rated a.c. voltage	U_{N AC}	500 V a.c.
Rated d.c. voltage	U_{N DC}	840 V d.c.
Max. rms voltage (sinusoidal)	U_{rms}	360 V
Non-recurrent surge voltage	u_s	1260 V
Rated energy	W_N	35.3 Ws
Maximum current	I_{max}	40 A
Maximum peak current	î	0.9 kA
Maximum surge current	I_s	2.7 kA
Series resistance	R_s	4.3 mΩ
dielectric dissipation factor	tan δ_o	2 x 10 ⁻⁴
insulation strength	C x R_{is}	5000 s
Self inductance	L_e	120 nH

thermal characteristics

Lowest operating temperature	Θ_{min}	-25 °C
Maximum operating temperature	Θ_{max}	85 °C

storing temperature	Θ_{storage}	-40...+85 °C
thermal resistance	R_{th}	5.1 K/W

test parameters

test voltage between terminals	U_{TT}	1260 V DC/10s
A.C. voltage test terminal/container	U_{TC}	3000 V AC/10s

failure rate	100 FIT*
reference service life	100000 h
at Θ _{hotspot}	≤70 °C

* See FIT-RATE diagram on pg.4

Dimensions

Rated diameter	D₁	65 (±1)	mm
Length of the case	L₁	135 (±2)	mm
Length of the terminals	L₂	23 (-2)	mm
Length of the terminals	L₃	12.5 (±1)	mm
distance terminals	a	22 (±1)	mm
Terminal		M6x12.5	mm
base mounting stud	G_BxL_B	M12x16 (+1)	mm
Clearance in air	L	10	mm
Creepage distance	K	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

