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Ordering code: PAM 42-200.0 cv5 (J)

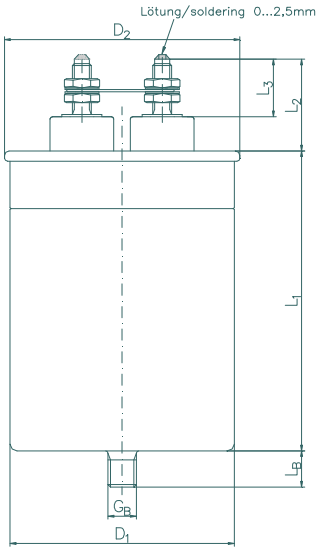
Applications: AC/DC capacitor for general use in power electronics
also for nonsinusoidal voltages and currents

Standard: acc. to IEC 61071:2007

Characteristics

Rated capacitance	C_N	200	µF ±5%
Rated d.c. voltage	$U_{N\,DC}$	700	V d.c.
Rated a.c. voltage	$U_{N\,AC}$	420	V a.c.
Max. rms voltage (sinusoidal)	U_{rms}	300	V
Non-recurrent surge voltage	u_s	1050	V
Rated energy	W_N	49	Ws
Maximum current	I_{max}	50	A
Maximum peak current	$\hat{I}$	1.8	kA
Maximum surge current	I_s	5	kA
Series resistance	R_s	1.4	mΩ
dielectric dissipation factor	$\tan\delta_o$	2	$x10^{-4}$
Self discharge time const.	$C \times R_{is}$	5000	s
Self inductance	L_e	150	nH

outline drawing



thermal characteristics

lower category temperature	Θ_{min}	-25	°C
upper category temperature	Θ_{max}	85	°C
thermal resistance	R_{th}	3.3	K/W[1)]
storing temperature	$\Theta_{storage}$	-40..+85	°C

test parameters

Test voltage between terminals	U_{TT}	1050	V DC/10s
A.C. voltage test terminals/case	U_{TC}	3000	V AC/10s

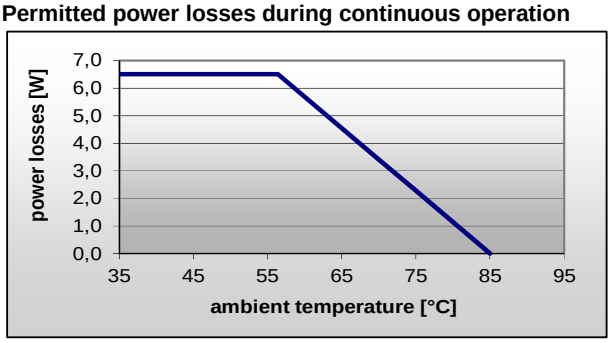
Statistical lifetime	>200000	h
Failure rate	< 100	FIT*
at $\Theta_{hotspot}$	≤70	°C

* See FIT-RATE diagram on p.4

Dimensions

Rated diameter	D_1	85	(±1)	mm
Maximum diameter	D_2	90.5	(±0.5)	mm
Length of the case	L_1	118	(±2)	mm
Length of the terminals	L_2	41	(±2)	mm
Length of the terminals	L_3	25	(±1)	mm
distance terminals	**a**	35	(±1)	mm
Terminal		M8x22.5		mm
base mounting stud	$G_B x L_B$	M12x16	(+1)	mm
Clearance in air	**L**	15		mm
Creepage distance	**K**	25		mm
Approx weight		0.9		kg

Permitted power losses during continuous operation



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

[1)] R_{th} ambient to Hotspot temperature

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