

**Ordering code:** DTIC 200-4.0 cv5 (J)

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

**Standard:** acc. to IEC 61071:2007

#### outline drawing

#### Characteristics

Rated capacitance	$C_N$	4 $\mu\text{F} \pm 5\%$
Rated d.c. voltage	$U_{N\text{DC}}$	2000 V d.c.
Rated a.c. voltage	$U_{N\text{AC}}$	2000 V a.c.
Max. rms voltage (sinusoidal)	$U_{\text{rms}}$	1400 V
Non-recurrent surge voltage	$u_s$	4300 V
Rated energy	$W_N$	8 Ws
Maximum current	$I_{\text{max}}$	80 A
Maximum peak current	$\hat{i}$	2.1 kA
Maximum surge current	$I_s$	6 kA
Series resistance	$R_s$	1.1 m $\Omega$
dielectric dissipation factor	$\tan\delta_o$	$2 \times 10^{-4}$
insulation strength	$C \times R_{\text{is}}$	10000 s
Self inductance	$L_e$	30 nH

#### thermal characteristics

lower category temperature	$\Theta_{\text{min}}$	-25 $^{\circ}\text{C}$
upper category temperature	$\Theta_{\text{max}}$	85 $^{\circ}\text{C}$
thermal resistance	$R_{\text{th}}$	4.8 K/W
storing temperature	$\Theta_{\text{storage}}$	-55..+85 $^{\circ}\text{C}$

#### test parameters

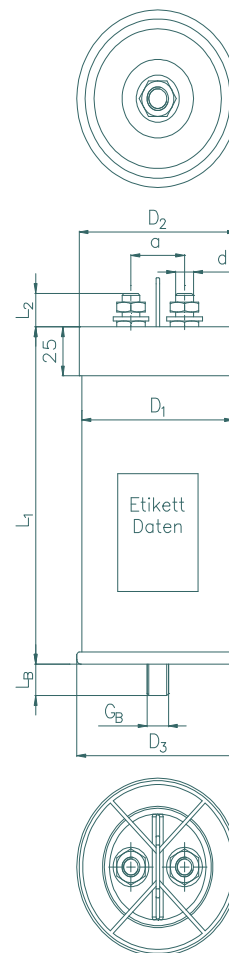
test voltage between terminals	$U_{\text{TT}}$	4300 V DC/10s
A.C. voltage test terminals/case	$U_{\text{TC}}$	6000 V AC/10s

<b>Statistical lifetime</b>	> 200000 h
<b>failure rate</b>	< 100 FIT*
at $\Theta_{\text{hotspot}}$	$\leq 70$ $^{\circ}\text{C}$

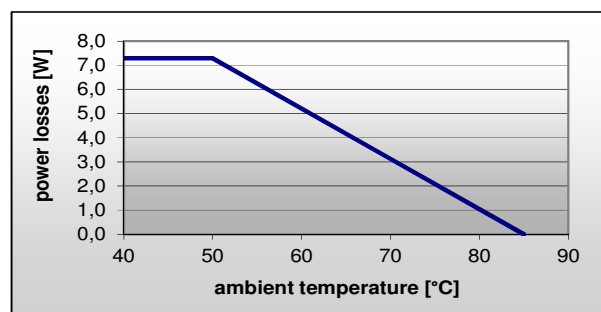
\* See FIT-RATE diagram on pg.4

#### Dimensions

Rated diameter	$D_1$	85 ( $\pm 1$ )	mm
diameter Lid	$D_2$	88 ( $\pm 1$ )	mm
Maximum diameter	$D_3$	90.5 ( $\pm 1$ )	mm
Length of the case	$L_1$	109 ( $\pm 2$ )	mm
Length of the terminals	$L_2$	22 (-1,5)	mm
distance btw. termials	$a$	30 ( $\pm 1$ )	mm
Terminal	$d$	M10	
base mounting stud	$G_B \times L_B$	M12x16 (+1)	mm
Clearance in air	$L$	24	mm
Creepage distance	$K$	50	mm
<b>Approx weight</b>		0.7	kg



#### permitted power losses during continuous operation



#### Mechanical characteristics

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	metal can, plastic cover rated V0 acc. to UL94
Protection	without internal fuse, to be used only in uncritical environment
Terminals	threaded stud
Impregnant	no liquid impregnants, filled with solidified PUR resin, non PCB
Location	allowed to be used in mineral oil
Fire load	28MJ