

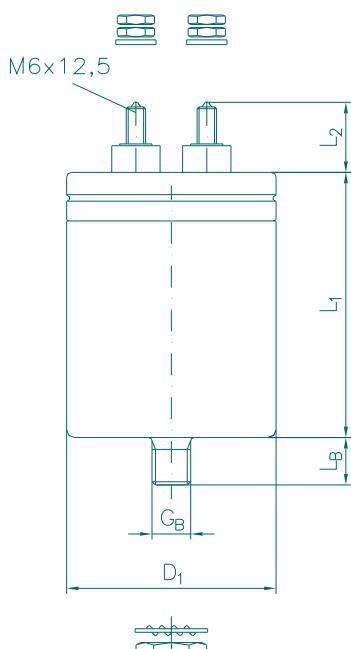
**Applications:** AC/DC capacitor for general use in power electronics  
also for nonsinusoidal voltages and currents

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

#### Characteristics

Rated capacitance	$C_N$	40 $\mu\text{F} \pm 5\%$
Rated a.c. voltage	$U_{N\text{ AC}}$	680 V a.c.
Rated d.c. voltage	$U_{N\text{ DC}}$	1120 V d.c.
Max. rms voltage (sinusoidal)	$U_{\text{rms}}$	480 V
Non-recurrent surge voltage	$u_s$	1680 V
Rated energy	$W_N$	25.1 Ws
Maximum current	$I_{\text{max}}$	25 A
Maximum peak current	$\hat{I}$	0.44 kA
Maximum surge current	$I_s$	1.32 kA
Series resistance	$R_s$	5.9 m $\Omega$
dielectric dissipation factor	$\tan\delta_0$	$2 \times 10^{-4}$
insulation strength	$C \times R_{is}$	5000 s
Self inductance	$L_e$	120 nH

#### outline drawing



#### thermal characteristics

Lowest operating temperature	$\Theta_{\min}$	-25 °C
Maximum operating temperature	$\Theta_{\max}$	85 °C
storing temperature	$\Theta_{\text{storage}}$	-40..+85 °C
thermal resistance	$R_{th}$	7.2 K/W

#### test parameters

test voltage between terminals	$U_{TT}$	1680 V DC/10s
A.C. voltage test terminal/container	$U_{TC}$	3000 V AC/10s

#### failure rate

reference service life at $\Theta_{\text{hotspot}}$	100000 h	100 FIT*
	$\leq 70$ °C	

\* See FIT-RATE diagram on pg.4

#### Dimensions

Rated diameter	$D_1$	50 (+1) mm
Length of the case	$L_1$	124 ( $\pm 2$ ) mm
Length of the terminals	$L_2$	23 ( $\pm 5$ ) mm
distance terminals	$a$	22 ( $\pm 1$ ) mm
Terminal		M6 x 12.5 mm
base mounting stud	$G_B \times L_B$	M12x16 (+1) mm
Clearance in air	$L$	10 mm
Creepage distance	$K$	15 mm

**Approx weight** 0.3 kg

#### Mechanical characteristics

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	overpressure disconnector
Terminals	threaded stud M6 on integrated plastic
Impregnant	liquid impregnants, no PCB
Fire load	12MJ

