

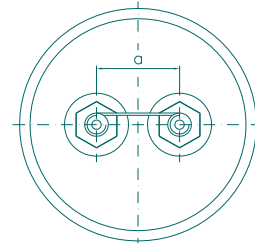
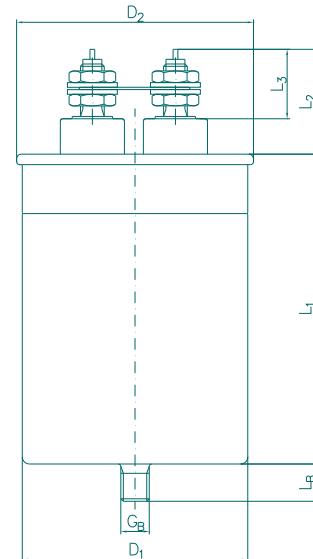
**Applications:** AC/DC capacitor for general use in power electronics  
also for nonsinusoidal voltages and currents

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

**Characteristics**

Rated capacitance	<b>C<sub>N</sub></b>	54 μF ±10%
Rated a.c. voltage	<b>U<sub>N AC</sub></b>	2000 V a.c.
Rated d.c. voltage	<b>U<sub>N DC</sub></b>	3000 V d.c.
Max. rms voltage (sinusoidal)	<b>U<sub>rms</sub></b>	1400 V
Non-recurrent surge voltage	<b>u<sub>s</sub></b>	4500 V
Rated energy	<b>W<sub>N</sub></b>	243 Ws
Maximum current	<b>I<sub>max</sub></b>	80 A
Maximum peak current	<b>î</b>	9.7 kA
Maximum surge current	<b>I<sub>s</sub></b>	20 kA
Series resistance	<b>R<sub>s</sub></b>	0.56 mΩ
dielectric dissipation factor	<b>tanδ<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>	170 nH

**outline drawing**



**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>	1.6 K/W

**test parameters**

test voltage between terminals	<b>U<sub>TT</sub></b>	4500 V DC/10s
A.C. voltage test terminal/container	<b>U<sub>TC</sub></b>	5800 V AC/10s

**failure rate**

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

**Dimensions**

Rated diameter	<b>D<sub>1</sub></b>	116 (±1)	mm
Maximum diameter	<b>D<sub>2</sub></b>	121.5 (±0.5)	mm
Length of the case	<b>L<sub>1</sub></b>	245 (±2)	mm
Length of the terminals	<b>L<sub>2</sub></b>	41 (-5)	mm
Length of the terminals	<b>L<sub>3</sub></b>	25 (+5)	mm
distance termials	<b>a</b>	35 (±1)	mm
Terminal		M10x22.5	mm
base mounting stud	<b>G<sub>B</sub>xL<sub>B</sub></b>	M12x16 (+1)	mm
Clearance in air	<b>L</b>	15	mm
Creepage distance	<b>K</b>	25	mm

**Approx weight** 2.7 kg

**Mechanical characteristics**

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can (folded edge)
Protection	overpressure disconnecter
Terminals	Screw terminals on plastic insulators
Impregnant	liquid impregnants, no PCB
Fire load	108MJ