

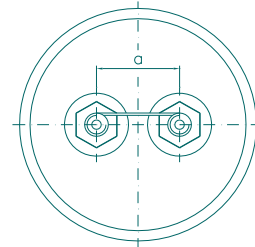
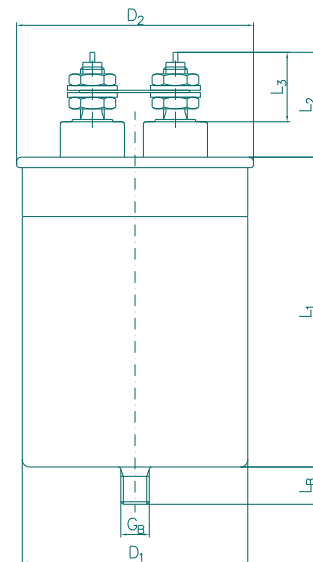
Applications: AC/DC capacitor for general use in power electronics
also for nonsinusoidal voltages and currents

Standard: acc. to IEC 61071:2007

Characteristics

Rated capacitance	C_N	54 μF ±10%
Rated a.c. voltage	U_{N AC}	2000 V a.c.
Rated d.c. voltage	U_{N DC}	3000 V d.c.
Max. rms voltage (sinusoidal)	U_{rms}	1400 V
Non-recurrent surge voltage	u_s	4500 V
Rated energy	W_N	243 Ws
Maximum current	I_{max}	80 A
Maximum peak current	î	9.7 kA
Maximum surge current	I_s	20 kA
Series resistance	R_s	0.56 mΩ
dielectric dissipation factor	tanδ_o	2 x 10 ⁻⁴
insulation strength	C x R_{is}	5000 s
Self inductance	L_e	170 nH

outline drawing



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}	1.6 K/W

test parameters

test voltage between terminals	U_{TT}	4500 V DC/10s
A.C. voltage test terminal/container	U_{TC}	5800 V AC/10s

failure rate

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

Dimensions

Rated diameter	D₁	116 (±1)	mm
Maximum diameter	D₂	121.5 (±0.5)	mm
Length of the case	L₁	245 (±2)	mm
Length of the terminals	L₂	41 (-5)	mm
Length of the terminals	L₃	25 (+5)	mm
distance termials	a	35 (±1)	mm
Terminal		M10x22.5	mm
base mounting stud	G_BxL_B	M12x16 (+1)	mm
Clearance in air	L	15	mm
Creepage distance	K	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