

Ordering code: OBIC 112-100.0 cv term block (K)
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	100 μF ±10%
Rated a.c. voltage	U_{N AC}	680 V a.c.
Rated d.c. voltage	U_{N DC}	1120 V d.c.
Max. rms voltage (sinusoidal)	U_{rms}	480 V
Non-recurrent surge voltage	u_s	1680 V
Rated energy	W_N	62.7 Ws
Maximum current	I_{max}	43 A
Maximum peak current	î	1.8 kA
Maximum surge current	I_s	5.5 kA
Series resistance	R_s	1.3 mΩ
dielectric dissipation factor	tanδ_o	2 x 10 ⁻⁴
insulation strength	C x R_{is}	5000 s
Self inductance	L_e	110 nH

thermal characteristics

Lowest operating temperature	Θ_{min}	-40 °C
Maximum operating temperature	Θ_{max}	85 °C

storing temperature	Θ_{storage}	-40..+85 °C
thermal resistance	R_{th}	4.2 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	100 FIT*
reference service life	100000 h
at Θ _{hotspot}	≤70 °C

* See FIT-RATE diagram on pg.4

Dimensions

Rated diameter	D₁	100 (±1)	mm
Maximum diameter	D₂	104.5 (±0.5)	mm
Length of the case	L₁	105 (±2)	mm
Length of the terminals	L₂	35 (+5)	mm
distance termials	a	44 (±1)	mm
distance termials	b	42 (±1)	mm
Terminal		RK 43A	mm
base mounting stud	G_BxL_B	M12x16 (+1)	mm
Clearance in air	L	16	mm
Creepage distance	K	16	mm

Approx weight 0.9 kg

Mechanical characteristics

Dielectric	MKP- metallized polypropylene capacitor, self-healing, metallic case
Construction	aluminium can, folded edge
Protection	overpressure disconnecter
Terminals	terminal block, 2x 25mm ² per terminal
Impregnant	liquid impregnants, no PCB
Fire load	36MJ

outline drawing

