

**Ordering code:** OBIC 112-100.0 cv2D (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 $\mu\text{F} \pm 10\%$
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	$I_{max}$	16 A
Maximum peak current	$\hat{I}$	0.87 kA
Maximum surge current	$I_s$	2.6 kA
Series resistance	$R_s$	5.1 m $\Omega$
dielectric dissipation factor	$\tan\delta_o$	$2 \times 10^{-4}$
insulation strength	$C \times R_{is}$	5000 s
Self inductance	$L_e$	110 nH

### thermal characteristics

Lowest operating temperature	$\Theta_{min}$	-25 °C
Maximum operating temperature	$\Theta_{max}$	85 °C
storing temperature	$\Theta_{storage}$	-40..+85 °C
thermal resistance	$R_{th}$	3.7 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	100 FIT*
at $\Theta_{hotspot}$	100000 h
	$\leq 70$ °C

\* See FIT-RATE diagram on pg.4

### Dimensions

Rated diameter	$D_1$	75 ( $\pm 0.5$ )	mm
Length of the case	$L_1$	160 ( $\pm 2.5$ )	mm
Length of the terminals	$L_2$	12 (+3)	mm
distance terminals	$a$	16.5 ( $\pm 1$ )	mm
Terminal		AMP 6.3 x 0.8 mm	
base mounting stud	$G_B \times L_B$	M12x16 (+1)	mm
Clearance in air	$L$	8	mm
Creepage distance	$K$	10	mm

**Approx weight** 0.7 kg

### Mechanical characteristics

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	overpressure disconnecter
Terminals	dual tab connectors 6.3 x 0.8 mm / plastic lid
Impregnant	liquid impregnants, no PCB
Fire load	28MJ

### outline drawing

