

Ordering code: OBIC 100-047 cv2S (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	0.47 μF ±10%
Rated a.c. voltage	U_{N AC}	640 V a.c.
Rated d.c. voltage	U_{N DC}	1000 V d.c.
Max. rms voltage (sinusoidal)	U_{rms}	450 V
Non-recurrent surge voltage	u_s	1500 V
Rated energy	W_N	0.2 Ws
Maximum current	I_{max}	8 A
Maximum peak current	I_̂	0.1 kA
Maximum surge current	I_s	0.3 kA
Series resistance	R_s	7.4 mΩ
dielectric dissipation factor	tanδ_o	2 × 10 ⁻⁴
insulation strength	C × R_{iS}	5000 s
Self inductance	L_e	60 nH

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}	37.1 K/W

test parameters

test voltage between terminals	U_{TT}	1500 V DC/10s
A.C. voltage test terminal/container	U_{TC}	3000 V AC/10s

failure rate

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

* See FIT-RATE diagram on pg.4

Dimensions

Rated diameter	D₁	25 (+1) mm
Length of the case	L₁	48 (±2) mm
Length of the terminals	L₂	16 (+3) mm
distance terminals	a	17 (±1) mm
Terminal		tab connector 6.3x0.8
base mounting stud	G_B × L_B	M8x10 (+1) mm
Clearance in air	L	7.5 mm
Creepage distance	K	7.5 mm

Approx weight 0.06 kg

Mechanical characteristics

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	overpressure disconnecter
Terminals	single tab connectors 6.3 × 0.8 mm / plastic lid
Impregnant	liquid impregnants, no PCB
Fire load	2MJ

outline drawing

