

Ordering code: E62.L95-803G1L
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	80 $\mu\text{F} \pm 5\%$
Rated a.c. voltage	$U_{N\text{ AC}}$	500 V a.c.
Rated d.c. voltage	$U_{N\text{ DC}}$	840 V d.c.
Max. rms voltage (sinusoidal)	U_{rms}	360 V
Non-recurrent surge voltage	u_s	1260 V
Rated energy	W_N	28.2 Ws
Maximum current	I_{max}	35 A
Maximum peak current	$\hat{I}$	1.1 kA
Maximum surge current	I_s	3 kA
Series resistance	R_s	3.9 m Ω
dielectric dissipation factor	$\tan\delta_o$	2×10^{-4}
insulation strength	$C \times R_{is}$	5000 s
Self inductance	L_e	100 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}	7.2 K/W

test parameters

test voltage between terminals	U_{TT}	1260 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	D_1	65 (+1)	mm
Length of the case	L_1	95 (± 2)	mm
Length of the terminals	L_2	23 (+5)	mm
distance terminals	a	22 (± 1)	mm
Terminal		M6 x12.5 mm	
base mounting stud	$G_B \times L_B$	M12x16 (+1)	mm
Clearance in air	L	10 mm	
Creepage distance	K	21 mm	

Approx weight 0.33 kg

Mechanical characteristics

Dielectric	metallized polypropylene capacitor, selfhealing
Construction	aluminium can, plastic with rubber sealing, flanged can
Protection	overpressure disconnecter
Terminals	threaded stud M6 on integrated plastic
Impregnant	liquid impregnants, no PCB
Fire load	13MJ

outline drawing

