



POWER ELECTRONICS CAPACITORS

01/07/2012

CML10109CNE2Z

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	1	μF
Capacitance tolerance		±10	%
Rated AC voltage	Urms	1000	Vac
Rated DC voltage	Udc	2000	Vdc
Non recurrent peak voltage	Us	2500	Vdc
Rated RMS current	Irms	25	A
Maximum dV/dt	dV/dt	500	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	500	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	900	A
Tangent of the loss angle $\tan\delta$ (1kHz) (typ)	tgδ(typ)	0,0003	-
Tangent of the loss angle $\tan\delta$ (1kHz) (max)	tgδ(max)	0,0005	-

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 10s)	Utt	1500	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Ambient temperature	t°amb	70	°C
---------------------	-------	----	----

RELIABILITY

Max. expected number failures for 10 ⁹ components hours	FIT	300	
Expected life at Urms	Ln	≥ 30000	hours
Expected life at Udc	Ln	≥ 100000	hours

MECHANICAL CHARACTERISTICS

Dimensions	DXH	50X100	mm
Case material		Aluminium	
Fixing	Stud	M8	
Plastic plate	UL-94 V0 , low smoke		
Approx weight		250	gr
Terminals		Screw M6	
Maximum drawing torque		4	N/m



POWER ELECTRONICS CAPACITORS

01/07/2012

CML10109CNE2Z

RATING, GENERAL CHARACTERISTICS

