



POWER ELECTRONICS CAPACITORS

29/08/2014

CML11004CNE2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	10	μF
Capacitance tolerance		±5	%
Rated AC voltage (RMS)	Urms	450	Vac
Rated AC voltage	UR	635	Vac
Rated DC voltage(IEC 61071)	Undc	1125	V
Repetitive surge voltage (IEC 61071)	UN	800	
Non repetitive surge voltage (IEC 61071)	Us	1688	V
Rated RMS current	Irms	25	A
Maximum dV/dt	dV/dt	40	V/μs
Repetitive peak current(max. peak current î-IEC 61071)	IpkR	400	A
Non repetitive peak current(max. surge current îs-IEC 61071)	IpkN	740	A
Equivalent series resistance	ESR(typ)	5	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0020	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0030	-
Self inductance	Ls	300	nH

TEST DATA

A.C. Test voltage between terminals ($\geq 2,15 U_{rms}$, 2s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(2s)	Utc	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Maximum operating temperature	t°	85	°C
Lowest operating temperature	t°	-40	°C

RELIABILITY

Max. expected number failures for 10^9 components hours	FIT	300	
Expected life	Ln	≥ 100000	hours

MECHANICAL CHARACTERISTICS

Dimensions	D	50	mm
	H	100	mm
Case material		Aluminium	
Fixing	Stud M8	L=10	mm
Plastic plate		UL-94 V0 , low smoke	
Approx weight		200	gr
Terminals		Screw M6	
Maximum drawing torque		4	N/m



POWER ELECTRONICS CAPACITORS

29/08/2014

CML11004CNE2X

RATING, GENERAL CHARACTERISTICS

