



POWER ELECTRONICS CAPACITORS

03/03/2017

CML31506C1D2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	15	μF
Capacitance tolerance		±5	%
Rated RMS voltage	Urms	550	Vac
Rated AC voltage	Un	775,5	Vac
Rated frequency	F	50/60	Hz
Max. rms current	Irms	16	A
Maximum dV/dt	dV/dt	22	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	330	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	990	A
Tangent of the loss angle $\tan\delta$ (1kHz) (typ)	tg δ (typ)	0,001	-
Equivalent series resistance	ESR(typ)	6	mΩ

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 3s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3500	Vac

ENVIRONMENTAL CHARACTERISTICS

Max. permissible Hot spot temperature	85	°C
Lowest operating temperature	-40	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	45X97	mm
Case material		Aluminium	
Fixing	Stud M8	L=10	mm
Plastic plate(cover)	Self extinguishing V0	UL94	
Approx weight		200	gr
Terminals		Double faston -	6,3X0,8



POWER ELECTRONICS CAPACITORS

03/03/2017

CML31506C1D2X

RATING, GENERAL CHARACTERISTICS

