



POWER ELECTRONICS CAPACITORS

31/03/2013

CML1A002AMJ3X

Ed.1 15/09/2016

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	100	μF
Capacitance tolerance		±5	%
Rated AC voltage	Urms	330	Vac
Rated DC voltage	Un	600	Vdc
Non recurrent peak voltage	Us	800	Vdc
Rated RMS current	Irms	32	A
Maximum dV/dt	dV/dt	20	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	2000	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	3700	A
Equivalent series resistance	ESR(typ)	5	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0015	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0025	-

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5 U_{rms}$, 10s)	Utt	660	Vac
A.C. Test voltage between terminals and case(60s)	Utc	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Ambient temperature with natural cooling:	t°amb	-40°C/+70°C
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RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	75X126	mm
Case material		Aluminium	
Fixing	Stud M12	L=12,5	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		750	gr
Terminals		Screw M10	
Maximum drawing torque		10	N/m



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