



POWER ELECTRONICS CAPACITORS

02/10/2016

CML1A002ANH2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	100	μF
Capacitance tolerance		±5	%
Rated AC voltage (RMS)	Urms	300	Vac
Rated AC voltage	UN	423	Vac
Rated DC voltage(IEC 61071)	Undc	698	V
Non recurrent surge voltage (IEC 61071)	Us	1047	V
Maximum RMS current	Irms	40	A
Maximum dV/dt	dV/dt	14	V/μs
Repetitive peak current(max. peak current \hat{i} -IEC 61071)	Ipkr	1400	A
Non repetitive peak current(max. surge current \hat{i}_s -IEC 61071)	Ipkn	2590	A
Equivalent series resistance	ESR(typ)	3,5	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	80	nH

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 3s)	Utt	600	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

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

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	D	65	mm
	H	83	mm
	H1	89	mm
Case material		Aluminium	
Fixing	Stud M12	L=12,5	mm
Plastic plate		UL-94 V0 , low smoke	
Approx weight		350	gr
Terminals		Screw M6	
Maximum drawing torque		4	N/m



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