



POWER ELECTRONICS CAPACITORS

15/02/2015

CML34507A1H3X

Ed.1

25/01/2018

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	45	μF
Capacitance tolerance		±5	%
Rated AC voltage	Urms	600	Vac
Rated frequency	F	50/60	Hz
Rated rms. current(at 600Vac and 50Hz)	Irmsn	8,48	A
Rated rms. current(at 600Vac and 60Hz)	Irmsn	10,17	A
Max. rms current	Irms	17	A
Maximum dV/dt	dV/dt	30	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	1350	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	2498	A
Tangent of the loss angle $\tan\delta$ (1kHz) (typ)	tgδ(typ)	0,0020	-
Tangent of the loss angle $\tan\delta$ (1kHz) (max)	tgδ(max)	0,0030	-
Equivalent series resistance	ESR(typ)	8	mΩ

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 10s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(60s)	Utc	3000	Vac

ENVIRONMENTAL CHARACTERISTICS

Min. permissible ambient temperature	t°amb	-40	°C
Max. permissible ambient temperature	t°amb	85	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Overpressure safety device			
Dimensions	DXH	65X140	mm
Case material		Aluminium	
Metal plate(cover)			
Fixing	Stud M12	L=12,5	mm
Approx weight		500	gr
Terminals		Double faston	



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