



POWER ELECTRONICS CAPACITORS

12/03/2014

CML1B501AMK3X

Ed.1:02/06/2014

Ed.2:25/09/2014

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	250	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	250	Vac
Rated DC voltage	Udc	400	Vdc
Recurrent peak voltage	U _N	600	V
Non recurrent peak voltage	U _s	875	V
Rated RMS current	Irms	35	A
Maximum dV/dt	dV/dt	15	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	3750	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	11250	A
Equivalent series resistance	ESR(typ)	4	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,003	(3*10 ⁻³)
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,004	(4*10 ⁻³)
Tangent of the loss angle tanδ (100Hz)(typ)	tgδ(typ)	0,0004	(4*10 ⁻⁴)
Self inductance	Ls	≤180	nH

TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	U _{tt}	500	Vac
A.C. Test voltage between terminals and case(50Hz, 3s)	U _{tc}	3500	Vac

ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	+85	°C
Min permissible case temperature	-40	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X136	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		850	gr
Terminals	Screw M10	20	mm
Maximum drawing torque		10	N/m



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