



POWER ELECTRONICS CAPACITORS
CML1B502AMK3Y
RATING, GENERAL CHARACTERISTICS

21/10/2016

Ed.1 05/05/2017

Rated capacitance	Cn	250	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	300	Vac
Rated AC voltage	UN	420	Vac
Rated RMS current	Irms	40	A
Repetitive peak current(max. peak current î-EN 61071)	Ipk	7,5	kA
Equivalent series resistance	ESR(typ)	<3	mΩ
Maximum dV/dt	dV/dt	30	V/μs
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0030	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0040	-
Self inductance	Ls	≤140	nH

TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	Utt	640	Vac
A.C. Test voltage between terminals and case(3s)	Utc	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	85X138	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0		, low smoke
Approx weight		850	gr
Terminals	Screw M10	22	mm
Maximum drawing torque		10	N/m



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