



## POWER ELECTRONICS CAPACITORS

12/05/2016

# CML8B502AMK5C

## RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	250	μF
Capacitance tolerance		±5	%
Rated AC voltage	Urms	330	Vac
Repetitive peak voltage	UN	600	V
Non recurrent peak voltage	Us	1400	V
Rated RMS current	Irms	50	A
Maximum dV/dt	dV/dt	15	V/μs
Repetitive peak current(max. peak current $\hat{i}$ -EN 61071)	Ipkr	3,8	kA
Non repetitive peak current(max. surge current $\hat{i}_s$ -EN 61071)	Ipkn	11,3	kA
Equivalent series resistance	ESR(typ)	<2	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,003	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,004	-
Self inductance	Ls	200	nH

## TEST DATA

A.C. Test voltage between terminals (50Hz, 3s EN 61071)	Utt	500	Vac
A.C. Test voltage between terminals and case(50Hz,3s)	Utc	3600	Vac

## ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	t°amb	70	°C
Min permissible case temperature	t°amb	-40	°C

## RELAIBILITY

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

## MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X210	mm
Overpressure device			
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1300	gr
Terminals	Screw M10	22	mm
Maximum drawing torque		10	N/m



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