



POWER ELECTRONICS CAPACITORS

26/03/2018

CML1B005AMK5C

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	200	μF
Capacitance tolerance		±5	%
Rated RMS voltage	Urms	500	V
Rated AC voltage	U _{NAC}	700	Vac
Rated DC voltage	U _{NDC}	1000	V
Non recurrent peak voltage	Us	1500	V
Maximum current	I _{max}	70	A
Repetitive peak current(max. peak current \hat{i} -EN 61071)	\hat{I}	6	kA
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	\hat{I}_s	10	kA
Equivalent series resistance	ESR(typ)	<1	mΩ

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 10s)	U _{tt}	1000	Vac
A.C. Test voltage between terminals and case(60s)	U _{tc}	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Ambient temperature with natural cooling:	t°amb	-40°C/+85°C
Maximum Hot Spot temperature		85 °C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X235	mm
Case material		Aluminium	
Fixing	Stud M12	L=12,5	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1000	gr
Terminals		Screw M10	
Maximum drawing torque		10	N/m



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