



**POWER ELECTRONICS CAPACITORS**

**30/04/2014**

**CML1A007AMK5C**

**RATING, GENERAL CHARACTERISTICS**

Rated capacitance	Cn	100	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	640	Vac
Rated AC voltage	UR	900	Vac
Recurrent peak voltage	UN	1280	V
Non recurrent peak voltage	Us	2240	V
Rated RMS current	Irms	60	A
Maximum dV/dt	dV/dt	25	V/μs
Repetitive peak current(max. peak current $\hat{i}$ -EN 61071)	Ipkr	2500	A
Non repetitive peak current(max. surge current $\hat{i}$ s-EN 61071)	Ipkn	7500	A
Equivalent series resistance	ESR(typ)	4	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,002	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,003	-
Self inductance	Ls	200	nH

**TEST DATA**

A.C. Test voltage between terminals (50Hz, 3s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(50Hz, 3s)	Utc	3500	Vac

**ENVIRONMENTAL CHARACTERISTICS**

Max permissible case temperature	t°amb	70	°C
Min permissible case temperature	t°amb	-25	°C

**RELIABILITY**

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

**MECHANICAL CHARACTERISTICS**

Dimensions	DXH	85X237	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		<i>1500 GRMS</i>	
Terminals	Screw M10	20	mm
Maximum drawing torque		10	N/m



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