



## POWER ELECTRONICS CAPACITORS

19/03/2014

# CML8A005AMJ5C

Ed.1 03/07/2015

## RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	100	μF
Capacitance tolerance		±5	%
Rated AC voltage	Urms	500	Vac
Rated DC voltage	Udc	900	Vdc
Non recurrent peak voltage	Us	1100	Vdc
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	3500	A
Equivalent series resistance	ESR(typ)	3	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	60	nH

## TEST DATA

A.C. Test voltage between terminals ( $\geq 1,5$ Urms, 10s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(60s)	Utc	3000	Vac

## ENVIRONMENTAL CHARACTERISTICS

Maximum operating temperature	t°	85	°C
Lowest operating temperature	t°	-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	75X210	mm
Overpressure device(anti-explosion system)			
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1200	gr
Terminals	Screw M10	22	mm
Maximum drawing torque		10	N/m



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