



## POWER ELECTRONICS CAPACITORS

28/01/2015

### CML16804AMJ4C

#### RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	68	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	450	Vac
Rated AC voltage	UR	635	Vac
Recurrent peak voltage	UN	900	V
Non recurrent peak voltage	Us	1575	V
Rated RMS current	Irms	50	A
Maximum dV/dt	dV/dt	30	V/μs
Repetitive peak current(max. peak current $\hat{I}$ -EN 61071)	Ipkr	2040	A
Non repetitive peak current(max. surge current $\hat{I}_s$ -EN 61071)	Ipkn	6120	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	180	nH

#### TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	Utt	900	Vac
A.C. Test voltage between terminals and case(50Hz, 3s)	Utc	3500	Vac

#### ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	t°amb	85	°C
Min permissible case temperature	t°amb	-40	°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	75X185	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1000	gr
Terminals	Screw M10	20	mm
Maximum drawing torque		10	N/m



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