



POWER ELECTRONICS CAPACITORS

30/04/2014

CML16807AMK4C

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	68	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	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	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 ⁹ components hours	FIT	300	
Expected life at URMS	Ln≥	100000	hours

MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X185	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1200	GRMS
Terminals	Screw M10	20	mm
Maximum drawing torque		10	N/m



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