



POWER ELECTRONICS CAPACITORS

19/12/2016

CML1D002AMK5F

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	400	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	330	Vac
Rated AC voltage	UR	465	Vac
Recurrent peak voltage	UN	700	V
Non recurrent peak voltage	Us	1100	V
Rated RMS current	Irms	70	A
Maximum dV/dt	dV/dt	15	V/μs
Repetitive peak current(max. peak current \hat{I} -EN 61071)	IpkR	6	kA
Non repetitive peak current(max. surge current \hat{I}_s -EN 61071)	IpkN	18	kA
Equivalent series resistance	ESR(typ)	3	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,003	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,004	-
Self inductance	Ls	<200	nH

TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	Utt	500	Vac
A.C. Test voltage between terminals and case(50Hz, 3s)	Utc	3500	Vac

ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	t°max	70	°C
Min permissible case temperature	t°min	-40	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X235	mm
	D1	88	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1600	gr
Terminals	Screw M10	20	mm
Maximum drawing torque		10	N/m



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