



POWER ELECTRONICS CAPACITORS

30/10/2015

CML1A501AMK3C

RATING, GENERAL CHARACTERISTICS

Rated capacitance	C _n	150	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	U _{rms}	250	V _{ac}
Rated AC voltage	U _R	350	V _{ac}
Recurrent peak voltage	U _N	600	V
Non recurrent peak voltage	U _s	900	V
Rated RMS current	I _{rms}	60	A
Rated RMS current at 250 Hz	I _{rms250}	58,9	A
Maximum dV/dt	dV/dt	20	V/μs
Repetitive peak current (max. peak current \hat{i} -EN 61071)	I _{pkr}	3000	A
Non repetitive peak current (max. surge current \hat{i}_s -EN 61071)	I _{pkn}	9000	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	L _s	150	nH

TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	U _{tt}	500	V _{ac}
A.C. Test voltage between terminals and case(50Hz, 3s)	U _{tc}	3500	V _{ac}

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 ⁹ components hours	FIT	300	
Expected life	L _n	100000	hours

MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X140	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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