



## POWER ELECTRONICS CAPACITORS

08/06/2015

### CML1A502AMJ3X

#### RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	150	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	300	Vac
Rated DC voltage	Udc	420	Vdc
Recurrent peak voltage	UN	700	V
Non recurrent peak voltage	Us	900	Vdc
Rated RMS current	Irms	35	A
Maximum dV/dt	dV/dt	20	V/μs
Repetitive peak current(max. peak current $\hat{i}$ -EN 61071)	Ipkr	3000	A
Non repetitive peak current(max. surge current $\hat{i}_s$ -EN 61071)	Ipkn	9000	A
Equivalent series resistance	ESR(typ)	4	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0030	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0040	-
Self inductance	Ls	≤180	nH

#### TEST DATA

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

#### ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	+85	°C
Min permissible case temperature	-40	°C

#### RELIABILITY

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

#### MECHANICAL CHARACTERISTICS

Dimensions	DXH	75X138	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0	, low smoke	
Approx weight		750	gr
Terminals	Screw M10	22	mm
Maximum drawing torque		10	N/m



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