



## POWER ELECTRONICS CAPACITORS

26/04/2016

### CML31007C1D2X

#### RATING, GENERAL CHARACTERISTICS

Rated capacitance	C <sub>n</sub>	<b>10</b>	μF
Capacitance tolerance		±5	%
Rated AC voltage	U <sub>R</sub> (U <sub>N</sub> )	600	V <sub>ac</sub>
Max. current	I <sub>max</sub>	<b>18</b>	A
Maximum dV/dt	dV/dt	40	V/μs
Repetitive peak current(max. peak current $\hat{i}$ -EN 61071)	I <sub>pkR</sub>	400	A
Non repetitive peak current(max. surge current $\hat{i}$ s-EN 61071)	I <sub>pkN</sub>	1000	A
Equivalent series resistance	ESR(typ)	<15	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0010	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0015	-

#### TEST DATA

A.C. Test voltage between terminals (≥1,5 Urms, 3s)	U <sub>tt</sub>	1000	V <sub>ac</sub>
A.C. Test voltage between terminals and case(3s)	U <sub>tc</sub>	3500	V <sub>ac</sub>

#### 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	Ln	100000	hours

#### MECHANICAL CHARACTERISTICS

Dimensions	DXH	45X97	mm
Case material		Aluminium	
Fixing	Stud M8	L=10	mm
Plastic plate(cover)		Self extinguishing V0 UL94	
Approx weight		200	gr
Terminals		Double faston(6,3mm)	



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