



## POWER ELECTRONICS CAPACITORS

03/03/2017

### CML31006C1D1X

#### RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	<b>10</b>	$\mu$ F
Capacitance tolerance		$\pm 5$	%
Rated AC voltage	Urms	550	Vac
Rated frequency	F	50/60	Hz
Max. rms current	Irms	<b>16</b>	A
Maximum dV/dt	dV/dt	50	V/ $\mu$ s
Repetitive peak current(max. peak current $\hat{i}$ -EN 61071)	Ipkr	500	A
Non repetitive peak current(max. surge current $\hat{i}_s$ -EN 61071)	Ipkn	1500	A
Tangent of the loss angle $\tan\delta$ (1kHz) (typ)	tg $\delta$ (typ)	0,001	-
Equivalent series resistance	ESR(typ)	7	m $\Omega$

#### TEST DATA

A.C. Test voltage between terminals ( $\geq 1,5$ Urms, 3s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3500	Vac

#### ENVIRONMENTAL CHARACTERISTICS

Max. permissible Hot spot temperature		85	$^{\circ}$ C
Lowest operating temperature		-40	$^{\circ}$ C

#### RELIABILITY

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

#### MECHANICAL CHARACTERISTICS

Dimensions	DXH	45X72	mm
Case material		Aluminium	
Fixing	Stud M8	L=10	mm
Plastic plate(cover)	Self extinguishing V0 UL94		
Approx weight		130	gr
Terminals		Double faston - <b>6,3X0,8</b>	



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