



## POWER ELECTRONICS CAPACITORS

22/04/2015

### CML1A001ANG3X

#### RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	<b>100</b>	$\mu$ F
Capacitance tolerance		$\pm 5$	%
Rated AC voltage (rms)	Urms	250	Vac
Rated DC voltage	Udc	400	Vdc
Recurrent peak voltage	U <sub>N</sub>	600	Vdc
Non recurrent peak voltage	Us	875	Vdc
Rated RMS current	Irms	32	A
Maximum dV/dt	dV/dt	30	V/ $\mu$ s
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	5550	A
Equivalent series resistance	ESR(typ)	4	m $\Omega$
Tangent of the loss angle tan $\delta$ (1kHz) (typ)	tg $\delta$ (typ)	0,0030	-
Tangent of the loss angle tan $\delta$ (1kHz) (max)	tg $\delta$ (max)	0,0040	-
Self inductance	Ls	80	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	3600	Vac

#### ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	+85	$^{\circ}$ C
Min permissible case temperature	-40	$^{\circ}$ C

#### RELIABILITY

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

#### MECHANICAL CHARACTERISTICS

Dimensions	DXH	<b>60X135</b>	mm
Case material		Aluminium	
Fixing	Stud M12	L=12,5	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		350	gr
Terminals		Screw M6	
Maximum drawing torque		4	N/m



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