



## POWER ELECTRONICS CAPACITORS

08/12/2016

### CML17501AMK3C

#### RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	75	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	250	Vac
Recurrent peak voltage	U <sub>N</sub>	500	V
Non recurrent peak voltage	Us	875	V
Rated current (250Vac/460Hz)	Irms	54,2	A
Maximum RMS current	Imax	60	A
Maximum dV/dt	dV/dt	20	V/μs
Repetitive peak current(max. peak current $\hat{I}$ -EN 61071)	Ipkr	1500	A
Non repetitive peak current(max. surge current $\hat{I}_s$ -EN 61071)	Ipkn	3750	A
Equivalent series resistance	ESR(typ)	3	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0015	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,002	-
Self inductance	Ls	150	nH

#### TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	U <sub>tt</sub>	500	Vac
A.C. Test voltage between terminals and case(50Hz, 3s)	U <sub>tc</sub>	3500	Vac

#### ENVIRONMENTAL CHARACTERISTICS

Max permissible case temperature	t°max	85	°C
Min permissible case temperature	t°min	-40	°C

#### RELIABILITY

Max. expected number failures for 10 <sup>9</sup> components hours	FIT	300	
Expected life at U <sub>RMS</sub>	Ln≥	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
Mounting position		Any position without restriction	



POWER ELECTRONICS CAPACITORS

08/12/2016

**CML17501AMK3C**

**RATING, GENERAL CHARACTERISTICS**

