



POWER ELECTRONICS CAPACITORS

03/03/2017

CML14706AMJ2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	47	μF
Capacitance tolerance		±5	%
Rated RMS voltage	Urms	550	Vac
Rated AC voltage	Un	775,5	Vac
Max. rms current	Irms	40	A
Maximum dV/dt	dV/dt	20	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	940	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	2820	A
Equivalent series resistance	ESR(typ)	3	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0020	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0030	-
Self inductance	Ls	100	nH

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	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Max. permissible Hot spot temperature	85	°C
Lowest operating temperature	-40	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	75X105	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		500	gr
Terminals	Screw M10	22	mm
Maximum drawing torque		10	N/m



POWER ELECTRONICS CAPACITORS
CML14706AMJ2X
RATING, GENERAL CHARACTERISTICS

03/03/2017

