



POWER ELECTRONICS CAPACITORS

14/05/2015

CML14704AMJ3C

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	47	μF
Capacitance tolerance		±5	%
Rated AC voltage (rms)	Urms	450	Vac
Rated AC voltage	UR	635	Vac
Recurrent peak voltage	UN	900	V
Non recurrent peak voltage	Us	1575	V
Rated RMS current	Irms	50	A
Maximum dV/dt	dV/dt	35	V/μs
Repetitive peak current(max. peak current \hat{I} -EN 61071)	Ipkr	1645	A
Non repetitive peak current(max. surge current \hat{I}_s -EN 61071)	Ipkn	4935	A
Equivalent series resistance	ESR(typ)	3	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,002	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,003	-
Self inductance	Ls	150	nH

TEST DATA

A.C. Test voltage between terminals (50Hz, 3s)	Utt	900	Vac
A.C. Test voltage between terminals and case(50Hz, 3s)	Utc	3500	Vac

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 ⁹ components hours	FIT	300	
Expected life at URMS	Ln≥	100000	hours

MECHANICAL CHARACTERISTICS

Dimensions	DXH	75X138	mm
Case material		Aluminium	
Fixing	Stud M12	16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		700	gr
Terminals	Screw M10	20	mm
Maximum drawing torque		10	N/m



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