



POWER ELECTRONICS CAPACITORS

26/04/2016

CML37502A1H2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	75	μF
Capacitance tolerance		±5	%
Rated AC voltage	Urms	300	Vac
Rated frequency	F	50/60	Hz
Max. rms current	Irms	16	A
Maximum dV/dt	dV/dt	15	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	1125	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	2081	A
Equivalent series resistance	ESR(typ)	<8	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0030	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0040	-

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 3s)	Utt	500	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Min. permissible ambient temperature	t°amb	-40	°C
Max. permissible ambient temperature	t°amb	85	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Overpressure safety device			
Dimensions	DXH	65X105	mm
Case material		Aluminium	
Metal plate(cover)			
Fixing	Stud M12	L=12,5	mm
Approx weight		300	gr
Terminals		Double faston	



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