



POWER ELECTRONICS CAPACITORS

26/04/2016

CML35505A1G3X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	55	μF
Capacitance tolerance		±5	%
Rated rms voltage	Urms	500	Vac
Rated DC voltage	Udc	850	Vdc
Max. rms current	Irms	16	A
Maximum dV/dt	dV/dt	20	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	\hat{I}	1100	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	\hat{I}_s	2035	A
Equivalent series resistance	ESR(typ)	<12	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 (2X Urms, 3s)	Utt	1000	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3500	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-EN 60252 Cl.A 400Vac	Ln	30 000	hours
Expected life-EN 60252 Cl.B 450Vac	Ln	10 000	hours
Expected life-EN 60252 Cl.C 500Vac	Ln	3 000	hours

MECHANICAL CHARACTERISTICS

Overpressure safety device	Class	P2	
Dimensions	DXH	60X140	mm
Case material		Aluminium	
Metal plate(cover)			
Fixing	Stud M12	L=12,5	mm
Approx weight		400	gr
Terminals		Double faston	



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