



POWER ELECTRONICS CAPACITORS

12/05/2017

CML1135FAMJ3Z

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	13,5	μF
Capacitance tolerance		±5	%
Rated rms voltage	Urms	500	Vac
Rated AC voltage	Un	705	Vac
Rated DC voltage	Udc	850	Vdc
Recurrent peak voltage	Us	1200	Vdc
Rated RMS current	Irms	45	A
Maximum dV/dt	dV/dt	350	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	2363	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	3544	A
Equivalent series resistance	ESR(typ)	4	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0003	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0005	-

TEST DATA

A.C. Test voltage between terminals ($\geq 1,5$ Urms, 10s)	Utt	750	Vac
A.C. Test voltage between terminals and case(3s)	Utc	3500	Vac

ENVIRONMENTAL CHARACTERISTICS

Maximum operating temperature	t°	85	°C
Lowest operating temperature	t°	-40	°C
Maximum storage temperature	t°	85	°C
Lowest storage temperature	t°	-55	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	75x140	mm
Case material		Aluminium	
Fixing	Stud	M12	
Plastic plate/lid		UL-94 V0 , low smoke	
Approx weight		800	gr
Terminals		Screw M10	
Maximum drawing torque		10	N/m



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