



POWER ELECTRONICS CAPACITORS

18/02/2016

DC LINK APPLICATIONS

CML5B50JAQK4X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	250	μF
Capacitance tolerance		±10	%
Rated DC voltage	Un	1300	Vdc
Maximum rms current	Irms	45	A
Maximum dV/dt	dV/dt	10	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	\hat{I}	2500	A
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	\hat{I}_s	5000	A
Equivalent series resistance(at 10kHz)	ESR(typ)	2,5	mΩ
Self inductance	Ls(typ)	≤40	nH

TEST DATA

D.C. Test voltage between terminals (1,5* Un, 10s)	Utt	1950	Vdc
A.C. Test voltage between terminals and case(60s)	Utc	3500	Vac

TEMPERATURE RANGE(case):

-40 to +70 °C

TEMPERATURE STORAGE:

-40 to +85 °C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X155	mm
Case material		Aluminium	
Fixing	Stud M12	h=16	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		600	gr
Terminals	Threaded hole	M6x12	mm
Maximum drawing torque		6	N/m

Other terminals on request



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