



POWER ELECTRONICS CAPACITORS

31/05/2016

DC LINK APPLICATIONS

CML5D50HAQN2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	450	μF
Capacitance tolerance		±10	%
Rated DC voltage	Un	1100	Vdc
Non - recurrent surge voltage (EN 61071)	Us	1650	V
Ripple voltage	Ur	250	V
Maximum r.m.s. current for continuous operation	Irms	80	A
Maximum dV/dt	dV/dt	18	V/μs
Repetitive peak current(max. peak current \hat{i} -EN 61071)	Ipkr	8,1	kA
Non repetitive peak current(max. surge current \hat{i}_s -EN 61071)	Ipkn	25,5	kA
Equivalent series resistance	ESR(typ)	≤0,6	mΩ
Self inductance	Ls(typ)	≤60	nH

TEST DATA

D.C. Test voltage between terminals ($\geq 1,5 U_n$, 10s)	Utt	1650	Vdc
A.C. Test voltage between terminals and case(3s)	Utc	3500	Vac

TEMPERATURE RANGE

-40/+85_(hotspot) °C

TEMPERATURE STORAGE:

-40 to +85 °C

RELIABILITY

Max. expected number failures for 10 ⁹ components hours	FIT	<100	
Expected life at Un(at 65°C hot spot)	Ln	>100000	hours

MECHANICAL CHARACTERISTICS

Dimensions	DXH	116X105	mm
Case material		Aluminium	
Fixing	Stud M12	h=16	mm
Maximum drawing torque of the fixing stud			10 N/m
Plastic plate	UL-94 V0 , low smoke		
Approx weight		1000	gr
Terminals	Threaded hole	M6x10	mm
Maximum drawing torque		6	N/m



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