



## POWER ELECTRONICS CAPACITORS

16/09/2016

### DC LINK APPLICATIONS

### CML5E80FAQK3X

### RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	580	μF
Capacitance tolerance		±10	%
Rated DC voltage	Un	900	Vdc
Ripple voltage	Ur	250	V
Maximum r.m.s. current for continuous operation	Imax	40	A
Maximum dV/dt	dV/dt	6	V/μs
Repetitive peak current(max. peak current $\hat{i}$ -EN 61071)	Ipkr	3,5	kA
Non repetitive peak current(max. surge current $\hat{i}_s$ -EN 61071)	Ipkn	6	kA
Equivalent series resistance	ESR(typ)	3	mΩ
Self inductance	Ls(typ)	≤60	nH

### TEST DATA

D.C. Test voltage between terminals ( $\geq 1,5 U_n$ , 10s)	Utt	1350	Vdc
A.C. Test voltage between terminals and case(3s)	Utc	3500	Vac

<b>TEMPERATURE RANGE:</b>	-40/+85 <sub>(hotspot)</sub>	°C
<b>TEMPERATURE STORAGE:</b>	-40/ +85	°C

### RELIABILITY

Max. expected number failures for 10 <sup>9</sup> components hours	FIT	<100	
Expected life at Un	Ln	>100000	hours

### MECHANICAL CHARACTERISTICS

Dimensions	DXH	85X135	mm
Case material		Aluminium	
Fixing	Stud M12	h=16	mm
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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