



POWER ELECTRONICS CAPACITORS

29/08/2014

CML14004ANH3X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	C _n	40	μF
Capacitance tolerance		±5	%
Rated AC voltage (RMS)	U _{rms}	450	V _{ac}
Rated AC voltage	U _R	635	V _{ac}
Rated DC voltage(IEC 61071)	U _{ndc}	1125	V
Repetitive surge voltage (IEC 61071)	U _N	800	
Non repetitive surge voltage (IEC 61071)	U _s	1688	V
Rated RMS current	I _{rms}	25	A
Maximum dV/dt	dV/dt	25	V/μs
Repetitive peak current(max. peak current î-IEC 61071)	I _{pkr}	1000	A
Non repetitive peak current(max. surge current îs-IEC 61071)	I _{pkn}	1850	A
Equivalent series resistance	ESR(typ)	5	mΩ
Tangent of the loss angle tanδ (1kHz) (typ)	tgδ(typ)	0,0020	-
Tangent of the loss angle tanδ (1kHz) (max)	tgδ(max)	0,0030	-
Self inductance	L _s	300	nH

TEST DATA

A.C. Test voltage between terminals (≥2,15 U _{rms} , 2s)	U _{tt}	1000	V _{ac}
A.C. Test voltage between terminals and case(2s)	U _{tc}	3600	V _{ac}

ENVIRONMENTAL CHARACTERISTICS

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

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	D	65	mm
	H	133	mm
	H1	139	mm
Case material		Aluminium	
Fixing	Stud M12	L=12,5	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		500	gr
Terminals		Screw M6	
Maximum drawing torque		4	N/m



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