



POWER ELECTRONICS CAPACITORS

15/03/2012

CML15001ANH2X

RATING, GENERAL CHARACTERISTICS

Rated capacitance	Cn	50	μF
Capacitance tolerance		±5	%
Rated AC voltage (RMS)	Urms	250	Vac
Rated DC voltage(IEC 61071)	Undc	750	V
Non recurrent surge voltage (IEC 61071)	Us	1100	V
Rated RMS current	Irms	25	A
Maximum dV/dt	dV/dt	25	V/μs
Repetitive peak current(max. peak current \hat{i} -IEC 61071)	Ipkr	1250	A
Non repetitive peak current(max. surge current \hat{i}_s -IEC 61071)	Ipkn	2312,5	A
Equivalent series resistance	ESR(typ)	4	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	Ls	180	nH

TEST DATA

A.C. Test voltage between terminals ($\geq 2,15$ Urms, 2s)	Utt	550	Vac
A.C. Test voltage between terminals and case(2s)	Utc	3600	Vac

ENVIRONMENTAL CHARACTERISTICS

Maximum operating temperature	t°	70	°C
Lowest operating temperature	t°	-40	°C

RELIABILITY

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

MECHANICAL CHARACTERISTICS

Dimensions	D	65	mm
	H	70	mm
	H1	76	mm
Case material	Aluminium		
Fixing	Stud M12	L=12,5	mm
Plastic plate	UL-94 V0 , low smoke		
Approx weight		300	gr
Terminals	Screw M6		
Maximum drawing torque		4	N/m



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