

## Data Sheet

CXPLP 100-66.0 t5 (K)

date: 17/07/2014 07:41:00  
version: 1.0

### Technical data

Nominal capacitance	$C_N$	66 $\mu\text{F} \pm 10\%$
Nominal voltage dc	$U_{\text{NDC}}$	1000 V
Surge voltage	$U_s$	1500 V
Energy	$W_N$	33 Ws
Max. AC current @ $T_{\text{case}}=30^\circ\text{C}/10\text{ kHz}$	$I_{\text{RMS}}$	100 A
Max. Peak periodic current	$\hat{I}_{\text{Periodic}}$	2,2 kA
Max. Pulse rise time	$\Delta U/\Delta t$	33 V/ $\mu\text{s}$
Dissipation factor @ 1 kHz	$\tan\delta$	$<6,2 \times 10^{-4}$
Equivalent series resistance @ 10 kHz	$R_{\text{ESR}}$	$<1\text{ m}\Omega$
Self inductance	$L_E$	10,5 nH

Max. Power loss @  $\vartheta_{\text{hotspot}} 85^\circ\text{C} / 10\text{kHz}$

@ $\vartheta_{\text{case}}$	I	P <sub>max</sub>
40°C	90,5 A	7,6 W
50°C	79,8 A	5,9 W
60°C	67,5 A	4,2 W
70°C	52,2 A	2,5 W

$U_N$ -Derating

@ $\vartheta_{\text{case}}$	$U_{\text{Nmax}}$
70°C	$U_N \times 1$
75°C	$U_N \times 0,9$
80°C	$U_N \times 0,8$
85°C	$U_N \times 0,7$

Min. Operating temperature	$\vartheta_{\text{min}}$	-40 °C
Max. Operating temperature ( $I_R=0$ )	$\vartheta_{\text{max}}$	+85 °C
Storage temperature	$\vartheta_{\text{Lager}}$	-40...+85 °C
Thermal resistance (case hotspot)	$R_{\text{th}}$	4,5 K/W
Climatic category DIN IEC 68/1		40/085/21

Test voltage between terminals  $U_{\text{TT}}$  1500 V dc / 2s

Life expectancy @ hot spot 60°C 100 000 h

### General data

Coating	plastic case with resin sealing Flame retardant according to UL 94V-0
Dielectric	polypropylene
Terminals	brass nickel plated M8x20mm, max. torque 6 Nm
Weight	approx. 350g

RoHS compliant

### Dimensions

Diameter	$\varnothing$	85,0	-1 mm
Length	L	40,0	$\pm 0,5\text{ mm}$
Pitch	RM	45,0	$\pm 0,4\text{ mm}$

