

# DC - Link Capacitor C44U

## GENERAL TECHNICAL DATA

Reference Standards : IEC 61071 , EN 61071

Dielectric : metallized polypropylene film  
 Winding : non-inductive type

Case : aluminum case with threaded bolt M12  
 Deck : thermosetting resin flame retardant UL94 V0  
 high current M6 female terminals

Construction : dry construction, filled by solid resin

IEC climatic category : 40/85/21 according to IEC 68-1  
 Operational Temperature : -40 to +85°C  
 Storage Temperature : -40 to +95°C

## DIMENSIONS (mm)

$\varnothing = 116$	$\varnothing \text{ max} = 118$	$H = 270$	$H1 = 276$	$P \text{ term.} = 50$
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## TEST METHODS AND PERFORMANCES

Test voltage terminal to terminal (Utt)	1.5*Un for 10 s at 25°C
Test voltage terminal to case (Utc)	3.2 kV 50Hz for 10 sec.
Life expectancy	100.000 hours @ Un and Ths = 70°C
Failure rate (IEC 61709)	50/10 <sup>9</sup> components hour @ Un and Ths = 70°C
Endurance Test (IEC 61071)	500h+500h @ 1.3xUn @ 70°C
Capacitance deviation in temperature range (-25..+85°C)	± 1,5% max on capacitance value at 25°C
Installation	Whatever position

## ELECTRICAL CHARACTERISTICS

Code	<b>C44UOGT7200G5SK</b>
Capacitance	2000 µF
Tolerance	±10 %
Rated Voltage	900 Vdc
Max Irms Current with natural cooling (Ths = 70°C)	<b>100 Arms</b> @40°C ambient temperature and 10kHz <b>92 Arms</b> @50°C ambient temperature and 10kHz <b>54 Arms</b> @60°C ambient temperature and 10kHz
Thermal Resistance	1.6 °C/W
dV/dt	5 V/µs
Repetitive Peak Current	10000 A <sub>pk</sub>
ESR	1.5 mΩ (10 kHz)
ESL	≤ 85 nH
Weight	~ 3250 gr
Number of pieces for packing unit	4



