

KEMET Electronics Italia S.r.l. *A Kemet Company*

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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

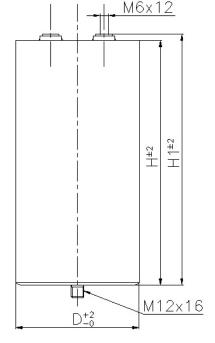
Operational Temperature : -40 to +85°C Storage Temperature : -40 to +95°C

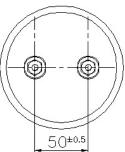
DIMENSIONS (mm)

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TEST METHODS AND PERFORMANCES

TEST METHODS IN (E. TEM SIMILIA (CES	
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 ⁹ components hour
	@ Un and Ths = 70° C
Endurance Test (IEC 61071)	500h+500h @ 1.3xUn @70°C
Capacitance deviation in	± 1,5% max on capacitance value at
temperature range (-25+85°C)	25°C
Installation	Whatever position





ELECTRICAL CHARACTERISTICS

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

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