

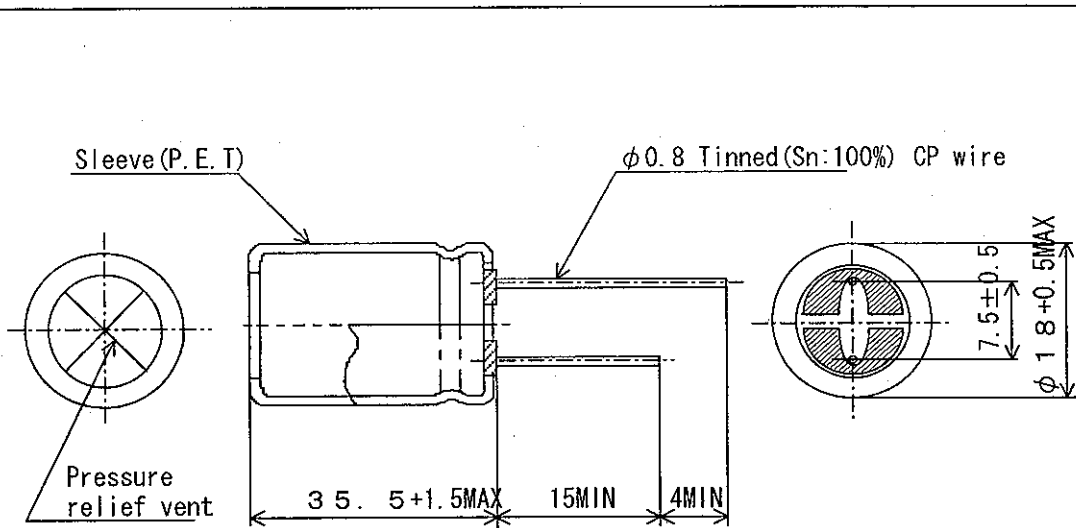
Date of application
Jan. 05. 2012

NICHICON CORPORATION
NICHICON (OHNO) CORPORATION
ENGINEERING DIV.

S P E C I F I C A T I O N
O F
ALUMINUM ELECTROLYTIC CAPACITORS

UCS2W101MHDHZX

DWG. No.	H120105h12	CHECKED	_____	Jan. 05. 2012
DESIGNED.	<i>H. Nijima</i> Jan. 05. 2012	APPROVED	<i>J. Kobayashi</i>	Jan. 05. 2012



<Example>

nichicon
100 μF 450V

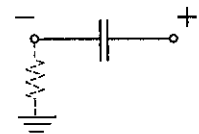


CS (M)
105°C
Lot. No.

nichicon
100 μF 450V



CS (M)
105°C
Lot. No.
PET



CONNECTION DIAGRAM

Sleeve color: Dark Brown
Marking color: White

ELECTRICAL CHARACTERISTICS

WORKING VOLTAGE (V. D. C)	SURGE VOLTAGE (V. D. C)	RATED CAP (μ F)	CAP. TOL. (%)	tan δ (MAX)	LEAKAGE CURRENT (μ A MAX)	RIPPLE CURRENT (mArms MAX)
450	500	100	±20	0.24	1900	1785
at 120Hz 20 °C					450 V after 1min	at 100kHz 105°C

TEST STANDARD

JIS C 5101-4

OPERATING TEMP. RANGE

-25 ~ 105°C

				NICHICON TYPE NO.			
				UCS2W101MHDHZX			
				RATE			
				450V		100 μ F	
				3RD ANGLE PROJEC-TION	SCALE /mm	DATE	CASE SIZE
MARK	DATE	DESCRIPTIONS	APPR.			2012/1/5	φ 18 × 35.5 L
REVISION :							
SPECIFICATION				DWG. No.		H120105h12	sheet 2

SPECIFICATION ALUMINUM ELECTROLYTIC CAPACITOR

1. SCOPE

This specification covers polarized aluminum foil drytype electrolytic capacitors.
(JIS-04 TYPE)

2. APPLICABLE SPECIFICATION

Japanese Industrial Standard JIS C 5101-4:1998 Characteristics W and
JIS C-5101-1:1998 except as specified in this specification.

3. PERFORMANCE

Unless otherwise specified, the standard range of atmospheric conditions
for making measurements and tests is as follows :

Ambient temperature : 5 to 35°C
Relative humidity : 45 to 85%RH
Air pressure : 86kPa to 106kPa

If there may be any doubt on the results, measurements shall be made within the
following limits,

Ambient temperature : 20±2°C
Relative humidity : 60 to 70%RH
Air pressure : 86kPa to 106kPa

No.	Item	Test method	Performance
3.1	OPERATING TEMPERATURE RANGE		-25 ~ 105 °C
3.2	RATED VOLTAGE		450 V
3.3	CAPACITANCE	at 120Hz±20%	100 μF±20%
3.4	tan δ	at 120Hz±20% To comply with JIS C 5101-1 4.8	0.24 MAX.
3.5	LEAKAGE CURRENT	To comply with JIS C 5101-1 4.9 After 1 minute's application of rated voltage.(at 20°C)	1900 μA MAX.
3.6	SURGE VOLTAGE	To comply with JIS C 5101-1 4.26 The surge voltage specified in the individual standard shall be applied 1000 times, each for 30±5s, period of 6±0.5min. Electric discharge : Not to carry Out Test temperature : 15~35°C	Capacitance : Not less than 80 % of the value before test. tan δ : Not more than 200 % of the specified value. Leakage current : Initial specified value or less
3.7	IMPEDANCE RATIO AT LOW TEMPERATURE	To comply with JIS C 5101-1 4.10 -25 °C 2h Measurement frequency : 120Hz±20%	$ Z _{-25°C}/ Z _{20°C} \leq 6$
3.8	TERMINAL STRENGTH	To comply with JIS C 5101-1 4.13 Tensile strength of termination : tensile force holding time tensile force : 10 N Bending strength of termination : Count it as 2 times. Dead weight : 5 N	No abnormality such as cutting off, looseness or the like of termination.
3.9	SOLDERABILITY	To comply with JIS C 5101-1 4.15 Temperature of solder : 235±5°C Dipping time : 2±0.5 s Storage time : after 6 month	At least 3/4 of circumferential surface of the dipped portion of termination shall be covered with new solder.
3.10	RESISTANCE OF SOLDERING	To comply with JIS C 5101-1 4.14 Temp. : 260±5°C Time : 10±1s or Temp. : 350 ±10°C Time : 3 s	Capacitance change : Within ±10% of initial value tan δ : Initial specified value or less. Leakage current : Initial specified value or less. Appearance : No remarkable abnormality.

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No.	Item	Test method	Performance
3.11	RESISTANCE TO DAMP HEAT (STEADY STATE)	To comply with JIS C 5101-1 4.22 Test temperature : $40 \pm 2^\circ\text{C}$ Relative humidity : 90~95%RH Test time : $240 \pm 8\text{h}$	Capacitance change : Within $\pm 15\%$ of initial value $\tan \delta$: Initial specified value or less. Leakage current : Initial specified value or less. Appearance : No remarkable abnormality.
3.12	ENDURANCE	To comply with JIS C 5101-1 4.23 Test temperature : $105 \pm 2^\circ\text{C}$ Test time : $10000 \frac{+72}{-0} \text{h}$ D.C. bias with rated ripple current so that its peak voltage shall not exceed the rated D.C. voltage.	Capacitance change : Within $\pm 20\%$ of initial value $\tan \delta$: 200 % or less of initial specified value. Leakage current : Initial specified value or less. Appearance : No remarkable abnormality.
3.13	SHELF LIFE TEST	Test temperature : $105 \pm 2^\circ\text{C}$ Test time : $1000 \frac{+48}{-0} \text{h}$	Capacitance change : Within $\pm 20\%$ of initial value $\tan \delta$: 200 % or less of initial specified value. Leakage current : Initial specified value or less. (Voltage treatment according to JIS C 5101-4 4.1) Appearance : No remarkable abnormality.
3.14	RESISTANCE TO VIBRATION	To comply with JIS C 5101-1 4.17 Direction and duration of vibration : 3 orthogonal directions mutually directions mutually each for 2h Total 6 h Frequency : 10 to 55 Hz Reciprocation for 1 min. Total amplitude : 1.5 mm	Capacitance : When the capacitance is measured, there shall be no intermittent contacts, or open or short-circuiting, and no abnormality. Appearance : No remarkable abnormality.
3.15	PRESSURE RELIEF VENT TEST	A.C Application Test The capacitor shall be subjected to an A.C. voltage (50 to 60Hz) with r.m.s value equal to 0.7 times the rated D.C. voltage through a series resistor. The series resistor as follows. $R = 10 \Omega$ D.C Application Test The capacitor shall be subjected to a reverse D.C. voltage equal to the rated D.C. voltage. the current flowing through the capacitor shall be limited to 1A.	There is no fine of the capacitor, when the pressure relief device shall be open, or there is no explosion or fire, etc. of the capacitor when 30 minutes has elapsed from the start of the test.
		NOTE : The test is terminated if the vent device is not when 30 min. has elapsed from the start of the test conducted under the condition.	
4. MARKING			
Capacitors shall be legibly marked with following. The marking "PET" shall be marked on sleeve in case.			
4-1 Manufacture's Trade mark			
4-2 Rated voltage			
4-3 Nominal capacitance			
4-4 EIA DATE CODE			
4-5 Negative polarity			
4-6 Capacitance Tolerance			
4-7 Maximum operating temperature identification			
4-8 Series identification			
SPECIFICATION		DWG. No.	H120105h12
		sheet	4

5. OTHERS

- The Relevant Export Regulation Laws:
In case that there is a certain danger of the products conflicting with the use and activity for the developments of weapons of mass destruction, the procedures based upon the relevant export regulation laws are absolutely needed.

- Ozone Depletion Substance
Ozone depletion substances are not used in our production process and at our suppliers.

- Brominated Flame Retardants
The restricted brominated flame retardants are not used.

- Please note that calculated lifetime is for reference only and not guaranteed.

- Production factory
NICHICON (OHNO) CORPORATION
NICHICON (IWATE) CORPORATION
NICHICON (MALAYSIA) SDN. BHD.
NICHICON ELECTRONICS (WUXI) CO., LTD.

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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[107CKR010M](#) [107CKH063MSA](#) [RJH-25V222MI9#](#) [RJH-35V221MG5#](#) [B43827A1106M8](#) [RJH-50V221MH6#](#) [EKYA500ELL470MF11D](#)
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[RXW471M1ESA-0815](#) [ELXZ630ELL221MJ25S](#) [ERR1HM1R0D11OT](#) [LPE681M30060FVA](#) [LPL471M22030FVA](#) [HFE221M25030FVA](#)
[LKMD1401H221MF](#) [B41888G6108M000](#) [EKMA160ETD470MF07D](#) [UHW1J102MHD6](#) [EKMG500ETD221MJC5S](#) [LKMK2502W101MF](#)
[LKMD1401H181MF](#) [LKMI2502G820MF](#) [LKMJ2001J122MF](#) [LKML2501C472MF](#) [LKMJ4002C681MF](#) [450MXH330MEFCSN25X45](#)
[450MXK330MA2RFC22X50](#) [63ZLH560MEFCG412.5X30](#) [ELH2DM331O25KT](#) [ELH2DM471P30KT](#)