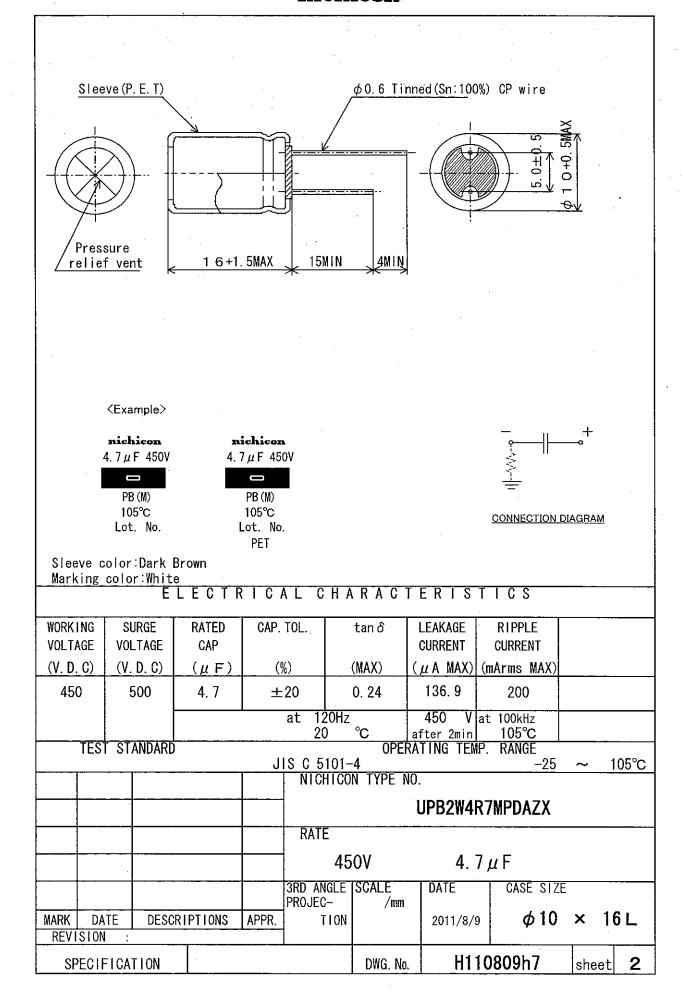
Date of application Aug. 09. 2011

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

UPB2	W/107	MDD	17V
UPD/	W4R /	MPDA	1/ A

DWG. No.	H110809h7	CHECKED	M. Murayam	Aug. 09. 2011
DESIGNED.	24 nojiri Aug. 09. 2011	APPROVED	y. Kola	Aug. 09. 2011



### 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.

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% 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% Air pressure: 86kPa to 106kPa

No.	ltem	Test method	Performance
3. 1	OPERATING TEMPERATURE RANGE		−25 ~ 105 °C
3. 2	RATED VOLTAGE		
	OADAOLTANOS		450 V
	CAPACITANCE	at 120Hz±20%	4. 7 μ F±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 2 minute's application of rated voltage (at 20°C)	136. 9 μ A 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. tanδ: Not more than 200 % of the specified value. Leakage current: Initial specified value
3.7	IMPEDANCE RATIO AT LOW TEMPERATURE	To comply with JIS C 5101-1 4.10 -25 - °C 2h Measurement frequency : 120Hz±20%	or less  Z -25°C/ Z 20°C≦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 protion 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 & : Initial specified value or less. Leakage current : Initial specified value or less. Appearance : No remarkable abnormality.

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No. Item	Test	method		Performa	ance
3.11 RESISTANCE TO DAMP	To comply with JIS C			Capacitance char	
HEAT (STEADY STATE)	Test temperature Relative humidity			±15% of init tanδ: Initial s	
		: 240±8h	•	value or less.	
			. *	Leakage current specified valu	
				Appearance : No	
0 10   155   1501	T. H. O.	F101 1 4 00	,	abnormality.	
3. 12 LIFE TEST	To comply with JIS C Test temperature			Capacitance char Within ±20 %	
	Test time :		h	value	
				$tan\delta$ : 200 % or less	of initial
	D. C. bias with rate	d ripple cu	rrent	specified value	
	so that its peak v			Leakage current	
	exceed the rated D	. C. voitage.		specified valu Appearance :No	
				abnormality.	
3. 13 SHELF LIFE TEST	Test temperature :	105±2℃		Capacitance char	nge : Within
	Test time :		h	±20 % of ini	
				tanδ: 200 % or less	of initial
				specified val	ue.
				Leakage current Initial speci	
			•	or less.	
				( Voltage treat according to	ment
				JIS C 5101-4	4.1 )
				Appearance : No remarkable	
	·			abnormality.	
3.14 RESISTANCE TO	To comply with JIS C	5101-1 4.1	7	Capacitance :	
VIBRATION	Direction and dura	tion of vib	ration :	When the capac	
	3 orthogonal directions mutual			measured, there no intermitter	
	Total 6 h			contacts, or or	oen
	Frequency : 10 to 55 Hz Recipr	ocation for	1 min.	or short-circu no abnormality	
	Total amplitude :			Appearance : No	
3.15 PRESSURE RELIEF VEN	IT A.C Application Tes	t t		abnormality. There is no fine	e of the
TEST	The capacitor shal	1 be subject		capacitor, when	
	an A.C. voltage (5 r.m.s value equal			pressure relief shall be open,o	
	rated D.C. voltage			no explosion or	fire, etc.
	resistor. The series resisto	ras follow	s	of the capacitor minutes has elap	
	R = 10	0 Ω		the start of the	
	D.C Application Test The capacitor shall		ted to		
	a reverse D.C. vol	tage equal	to the		
	rated D.C. voltage flowing through th				
	be limited to 1A.		OHAT I		
	NOTE : The test is	terminated	if the v	 ent device is no	t
	when 30 min	. has elapse	ed from t	he start of the	
4. MARKING	conducted u	nder the co	ndition.		
Capacitors shall be	e legibly marked with fo				1
	shall be marked on sleeve s Trade mark	e in case.			
4-2 Rated voitag	e				
4-3 Nominal capacitance 4-4 EIA DATE CODE					
4-5 Negative polarity					
4-6 Capacitance Tolerance 4-7 Maximum operating temperture identification					
4-8 Series ident		, 54 (151)	<b></b>		, .
SPECIFICATION		DWG. No.	H1	10809h7	sheet 4
O EOTI TOATTON		DIIG. 110.	311		

#### 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 adsolutely 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.

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