Date of application Aug. 23. 2013

NICHICON CORPORATION NICHICON (OHNO) CORPORATION DESIGN DEPT. I

S P E C I F I C A T I O N O F

ALUMINUM ELECTROLYTIC CAPACITORS

UBT1K471MNDDCTCC

DWG. No.	H130809h3	CHECKED	K.Yasukawa	awa Aug. 23. 2013		
DESIGNED.	M.Murayama Aug. 23. 2013	APPROVED	J.Kobayashi	Aug. 23. 2013		

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	SPECIFICAT	ION ALUMINUM ELECTRO	ט אדו		OR		
	SPECIFICATION ALUMINUM ELECTROLYTIC CAPACITOR						
1. SC	 SCOPE This specification covers polarized aluminum foil drytype electrolytic capacitors. (JIS-04 TYPE) 						
2. AF	 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. PE							
	Ambient temperature : 5 to 35°C Relative humidity : 45 to 85%RH Air pressure : 86kPa to 106kPa						
	following limits, Ambient temperat	doubt on the results, me ure:20±2°C	asuren	ents shall	be made with	nin the	
	Relative humidit Air pressure	y :60 to 70%RH :86kPa to 106kPa					
No.	ltem	Test meth	nd		Performa	ance	
3.1	OPERATING TEMPERATURE RANGE		lou		-40 ~ 125		
	RATED VOLTAGE				80	V	
3.3 3.4	CAPACITANCE	at 120Hz±20% at 120Hz±20%			470μF±2	:0%	
5.4	tanδ	at 120Hz±20% To comply with JIS C 5101-	-1 4.8		0.08	MAX.	
3.5	LEAKAGE CURRENT	To comply with JIS C 5101- After 1 minute's appli of rated voltage.(at 20°C)	14.9		1128 μ A	MAX.	
3.6	SURGE VOLTAGE	To comply with JIS C 5101- The surge voltage specit	fied in		pacitance: Not less than		
		the individual standard applied 1000 times, each	n for	ta	the value befo nδ:		
30 ± 5 s, period of 6 ± 0.5 min. Electric discharge : Not to carry			ry	Not more than 200 % of the specified value. Leakage current:			
		·	~35°C		Initial specif or less	ied value	
3.7	IMPEDANCE RATIO AT LOW TEMPERATURE	To comply with JIS C 5101- -25,-40 - ℃ 2h			Z -25°C/ Z 20 Z -40°C/ Z 20		
3. 8	TERMINAL STRENGTH	Measurement frequency To comply with JIS C 5101- Tensile strength of termir	1 4.13	No	abnormality s tting off, loo		
		tensile force holding time tensile force : 10 N		or	the like of the like of	5611655	
		Bending strength of termir Count it as 2 times.	ation				
3.9	SOLDERABILITY	Dead weight : 5 N To comply with JIS C 5101-			least 3/4 of		
		Dipping time	: 235± : 2±0.	5 s	circumferentia of the dipped	protion of	
2 10		_			termination sh covered with r	new solder.	
3.10	3. 10 RESISTANCE OF To comply with JIS C 5101-1 4. 14 SOLDERING Temp. : 260±5°C Time : 10±1s				Capacitance change:Within ±10% of initial value tanδ:Initial specified		
	or Temp. : 350 ±10°C				value or less. Leakage current : Initial		
Time : 3 4 s			Ap	specified valu pearance : No			
abnormality.							
SPE	SPECIFICATION DWG. No. H130809h3 sheet 3						

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	I Tast		l Dawfaw			
No. Item 3.11 RESISTANCE TO D/	Test	method	Perfor Capacitance ch			
3.11 RESISTANCE TO DA HEAT (STEADY STA		: 40±2°C	±15% of in			
ILAT (STEADT STA	Relative humidity					
	Test time	$: 240 \pm 8h$	value or les			
			Leakage curren	t : Initial		
				lue or less.		
			Appearance : N	o remarkable		
			abnormality.			
3.12 ENDURANCE	To comply with JIS C Test temperature					
	Test time :			% UI IIILIAI		
	1631 11116 .	5000 -	$\tan \delta$:			
			300 % or les	ss of initial		
	D.C.bias with rate			lue.		
	so that its peak v					
	exceed the rated D	.C. voltage.				
			Appearance : N abnormality.	o remarkadie		
3.13 SHELF LIFE TEST	Test temperature :		Capacitance ch			
	Test time :	1000 🚽		nitial value		
			tanδ:	o of initial		
			300 % or les specified va			
			Leakage curren			
			Initial spec			
			or less.			
			(Voltage trea			
			according to			
			JIS C 5101-4 Appearance :	4.1)		
			No remarkabl	e		
			abnormality.			
3.14 RESISTANCE TO	To comply with JIS C	5101-1 / 17	Capacitance :			
VIBRATION	Direction and dura			acitance is		
	3 orthogonal direc					
	directions mutuall		2h no intermitt			
	_ Total 6 h		contacts, or			
	Frequency : 10 to 55 Hz Recipr	anation for	or short-cir 1 min. no abnormali			
	Total amplitude :		Appearance : N			
		1.0 1111	abnormality.			
3.15 PRESSURE RELIEF			There is no fi	ne of the		
TEST	The capacitor shal					
	an A.C. voltage (5					
	r.m.s value equal rated D.C. voltage					
	resistor.	uniougii a s	of the capacit	,		
	The series resisto	or as follows				
	R =	1 Ω	the start of t			
	D.C_Application Test					
	The capacitor shal					
	a reverse D.C. vol rated D.C. voltage					
	flowing through th					
	be limited to 1A.					
	1077					
			if the vent device is no			
		. has elapse nder the cor	ed from the start of the	Lesl		
4. MARKING						
	l be legibly marked with fol	lowing.				
The marking "PE	「" shall be marked on sleeve					
4-1 Manufacture's Trade mark						
4-2 Rated voltage						
4-3 Nominal capacitance 4-4 EIA DATE CODE						
4-4 ETA DATE CODE 4-5 Negative polarity						
4-6 Capacitance Tolerance						
	pperating temperture identif	ication				
4-8 Series identification						
SPECIFICATION		DWG. No.	H130809h3	sheet 4		

5. OTHERS					
In case that activity for	port Regulation Laws: there is a certain danger of the developments of weapons o vant export regulation laws an	f mass destr	uction, the procedures b		
• Ozone Depletion Ozone depleti our suppliers	on substances are not used in	our product	ion process and at		
• Brominated Flam The restricte	e Retardants d brominated flame retardants	are not use	d.		
•Please note tha	t calculated lifetime is for r	eference onl	y and not guaranteed.		
• Production factor NICHICON (OHNO) NICHICON (IWATE NICHICON (MALAY NICHICON ELECTR	CORPORATION) CORPORATION				
SPECIFICATION		DWG. No.	H130809h3	sheet	5