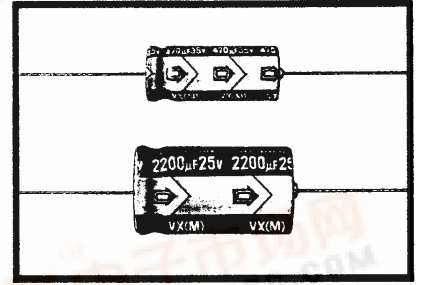


ALUMINUM ELECTROLYTIC CAPACITORS 多邦, 专业PCB打样工厂, 24小时加急出货 **nichicon**

VX Standard, For General Purposes - Axial Lead Type
(02 type) series



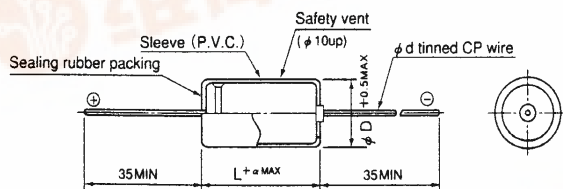
- Axial lead type of standard series for general purposes.



Specifications

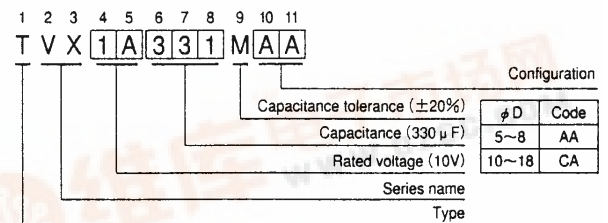
Item	Performance Characteristics							
Operating Temperature Range	-40~+85°C (6.3~250V), -25~+85°C (315~450V)							
Voltage Range	6.3~450V							
Capacitance Range	0.47~10000 µF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	Rated voltage (V)	6.3~100 160~450						
	Leakage current	After 1 minute's application of rated voltage, not more than 0.03CV or 4 (µA), whichever is greater. After 2 minutes' application of rated voltage, not more than 0.01CV or 3 (µA), whichever is greater.						
tan δ	For capacitance of more than 1000 µF, add 0.02 for every increase of 1000 µF. Measurement frequency: 120Hz. Temperature: 20°C							
	Rated voltage (V)	6.3 10 16 25 35 50 63~100 160~315 350~450						
Stability at Low Temperature	Measurement frequency: 120Hz							
	Rated voltage (V)	6.3 10 16 25 35~100 160~250 315 · 350 400 · 450						
	Impedance ratio Z1/Z20 (MAX.)	Z-25°C/Z+20°C 4 3 2 2 2 4 6 15 Z-40°C/Z+20°C 10 8 6 4 3 12 — —						
Load Life	After 2000 hours' application of rated voltage at 85°C, capacitors meet the characteristics requirements listed at right.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less
	Capacitance change	Within ±20% of initial value						
	tan δ	200% or less of initial specified value						
Leakage current	Initial specified value or less							
Shelf Life	After leaving capacitors under no load at 85°C for 1000 hours, they meet the requirements at right.	<table border="1"> <tr> <td>Capacitance change</td> <td>Within ±20% of initial value</td> </tr> <tr> <td>tan δ</td> <td>200% or less of initial specified value</td> </tr> <tr> <td>Leakage current</td> <td>Initial specified value or less</td> </tr> </table>	Capacitance change	Within ±20% of initial value	tan δ	200% or less of initial specified value	Leakage current	Initial specified value or less
	Capacitance change	Within ±20% of initial value						
	tan δ	200% or less of initial specified value						
Leakage current	Initial specified value or less							
Marking	Printed with white color letter on purple blue sleeve.							
Applicable Standards	JIS C 5141 and JIS C 5102.							

Axial Lead Type



α	(φ D < 10)	1	φ D	5~13	16~18
	(φ D ≥ 10)	2		φ d	0.6

Type numbering system (Example: 10V 330 µF)



Please refer to page 19 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

● Dimension table in next page.



ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

VX (02 type) series

ALUMINUM ELECTROLYTIC CAPACITORS

■ Dimensions

DXL (mm)

Cap. (μF)	Code	6.3		10		16		25		35		50		63		100	
		0J		1A		1C		1E		1V		1H		1J		2A	
0.47	R47											5×12	5			5×12	10
1	010											5×12	10			5×12	18
2.2	2R2											5×12	23			5×12	28
3.3	3R3											5×12	28			5×12	34
4.7	4R7											5×12	34			5×12	40
10	100											5×12	50	5×12	55	6.3×12	60
22	220									5×12	70	6.3×12	85	6.3×12	90	8×16	120
33	330							5×12	80	6.3×12	90	6.3×16	110	6.3×16	120	8×16	150
47	470					5×12	85	6.3×12	100	6.3×16	120	6.3×16	130	8×16	160	8×20	190
100	101	5×12	110	6.3×12	130	6.3×16	160	6.3×16	170	8×16	210	8×16	220	8×20	260	10×26	340
220	221	6.3×16	200	6.3×16	210	8×16	260	8×16	280	8×20	340	10×21	410	10×26	480	13×26	560
330	331	6.3×16	250	8×16	300	8×16	320	8×20	380	10×21	460	10×26	560	13×26	650	13×31.5	750
470	471	8×16	330	8×16	350	8×20	430	10×26	510	10×26	610	13×26	730	13×31.5	840	16×31.5	970
1000	102	10×21	600	10×21	640	10×26	770	13×26	900	13×31.5	1060	16×31.5	1260	16×31.5	1330		
2200	222	13×26	1020	13×26	1090	13×31.5	1180	16×31.5	1480	16×31.5	1580	18×41	1920				
3300	332	13×26	1200	13×31.5	1390	16×31.5	1620	16×41.5	1710	16×41.5	2050						
4700	472	16×31.5	1500	16×31.5	1730	16×41.5	1840	18×41	2170								
6800	682	16×31.5	1840	16×41.5	1930	18×41	2310										
10000	103	16×41.5	2260	18×41	2350												

Cap. (μF)	Code	160		200		250		315		350		400		450	
		2C		2D		2E		2F		2V		2G		2W	
1	010	6.3×12	13	6.3×12	13	6.3×16	14	6.3×16	14	6.3×16	12	8×16	14	8×16	14
2.2	2R2	6.3×16	23	6.3×16	23	8×16	27	8×16	27	8×16	24	8×20	28	10×21	31
3.3	3R3	8×16	33	8×16	33	8×16	33	8×20	36	8×20	32	10×21	38	10×21	38
4.7	4R7	8×16	39	8×16	39	8×20	45	8×20	45	10×21	46	10×21	46	10×26	50
10	100	8×20	60	10×21	70	10×21	70	10×26	80	13×26	85	13×26	85	13×26	85
22	220	10×26	120	13×26	140	13×26	140	13×31.5	150	13×31.5	140	16×31.5	150	16×31.5	150
33	330	13×26	170	13×26	170	13×31.5	190	16×31.5	210	16×31.5	190	16×41.5	210	18×41	230
47	470	13×31.5	230	13×31.5	230	16×31.5	260	16×31.5	260	16×41.5	260	18×41	290		Allowable ripple
100	101	16×41.5	430	16×41.5	430	16×41.5	430							Case size	

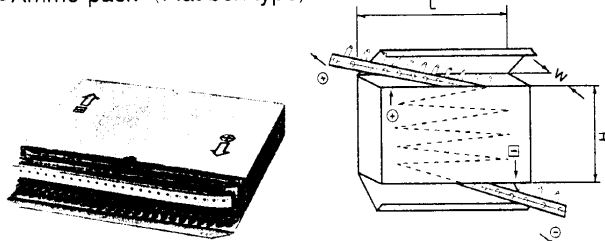
Allowable Ripple (mA rms) at 85°C 120Hz

● Frequency coefficient of allowable ripple current

V	Cap. (μF)	Frequency (Hz)			
		120	300	1k	10k~
6.3~100	~47	1.00	1.35	1.57	2.00
	100~470	1.00	1.23	1.34	1.50
	1000~10000	1.00	1.10	1.13	1.15
160~450	1~100	1.00	1.25	1.40	1.60

Packaging

- Ammo-pack (Flat box type)



L	H	W	Case Size	Q'ty/Box
340	150	50	3×5	2000
340	200	50	4×5, 4×7	2000
340	250	50	5×5, 5×7	2000
			8×5, 8×7	1000
340	300	50	6.3×5, 6.3×7	2000
340	260	54	4×11, 5×9, 5×11	2000
			8×9, 8×11.5, 8×15	1000
340	200	54	10×9, 10×12.5, 10×15, 10×16	500
340	300	54	6.3×9, 6.3×11, 6.3×15	2000
340	260	62	8×20	1000
340	200	62	10×20	500
340	200	65	10×25	500
330	290	65	12.5×12.5, 12.5×15, 12.5×20	500
			12.5×25	500
			18×15, 18×20, 18×25	250
320	230	65	16×15, 16×20, 16×25	250

- Axial lead type (Applicable standard JIS C0805)

The following code shall be put at 12th ~ 14th digit of the corresponding type number of capacitors. (mm)

Taping Specifications		Case dia (φ)	Taping code	Q'ty/Reel (pcs.)
Dim. W (Tape distance)	Dim. P (Component Pitch)			
52.4	10	5	1LS	1600
		6.3		1300
		8		1000
63.5	10	5	1LV	1600
		6.3		1300
		8		1000
73.0	10	5	1LY	1600
		6.3		1300
		8		1000
52.4	15	10	1LT	500
		13 (except 31.5L)		350
63.5	15	10	1LW	500
		13		350
73.0	15	10	1LZ	500
		13		350

Please contact us for complete information on the package dimensions for tapes axial lead capacitors.

