

ALUMINUM ELECTROLYTIC CAPACITORS

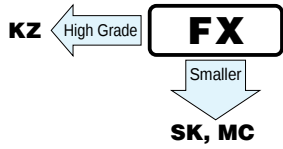
nichicon



Miniature Sized, For Audio Equipment



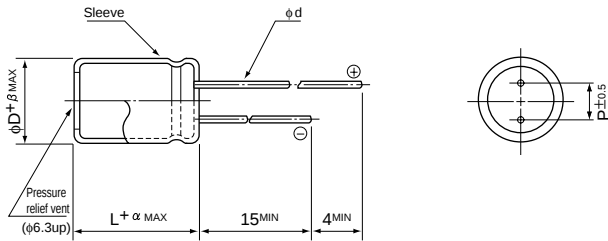
- Miniature sized "nichicon MUSE" acoustic series.
- Suited for use in audio devices where lighter, thinner, shorter and smaller capacitors are required.



Specifications

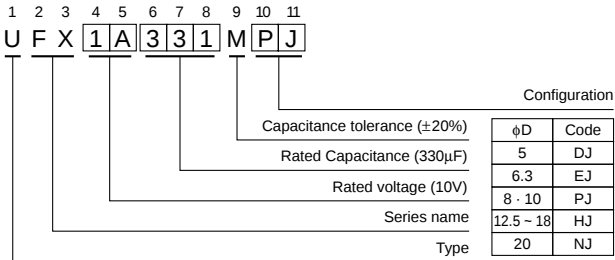
Item	Performance Characteristics									
Category Temperature Range	-40 ~ +85°C									
Rated Voltage Range	6.3 ~ 100V									
Rated Capacitance Range	0.1 ~ 22000μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01CV or 3 (μA) , whichever is greater. After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (μA) , whichever is greater.									
tan δ	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. Measurement frequency : 120Hz, Temperature : 20°C									
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	
	tan δ (MAX.)	0.26	0.22	0.18	0.16	0.14	0.12	0.10	0.10	
Stability at Low Temperature	Measurement frequency : 120Hz									
	Rated voltage (V)		6.3	10	16	25	35	50	63	100
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	4	3	2	2	2	2	2	2
		Z-40°C / Z+20°C	10	8	6	4	3	3	3	3
Endurance	After 1000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.				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 specified value for endurance characteristics listed above.									
Marking	Printed with silver color letter on emerald green sleeve.									

Radial Lead Type



			(mm)								
α	(L < 20)	1.5	ϕD	5	6.3	8	10	12.5	16	18	20
	(L $\geq$ 20)	2.0	β	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
			P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10.0
			ϕd	0.6	0.6	0.6	0.6	0.8	0.8	0.8	1.0

Type numbering system (Example : 10V 330µF)



※ Please contact to us if Eco-Products are required.

Please refer to page 19, 20, 21 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.

• Dimension table in next page.

CAT.8100S

■ Dimensions

D × L (mm)

Cap.(μF)	V	6.3		10		16		25		35		50		63		100	
		0J		1A		1C		1E		1V		1H		1J		2A	
0.1	0R1											5×11	1.1			5×11	2.1
0.22	R22											5×11	2.3			5×11	4.7
0.33	R33											5×11	3.5			5×11	7
0.47	R47											5×11	5			5×11	10
1	010											5×11	10			5×11	21
2.2	2R2											5×11	23			5×11	30
3.3	3R3											5×11	35			5×11	35
4.7	4R7							5×11	30	5×11	35	5×11	40	5×11	40	5×11	40
10	100					5×11	40	5×11	50	5×11	50	5×11	55	5×11	60	6.3×11	70
22	220	5×11	35	5×11	55	5×11	70	5×11	75	5×11	80	5×11	85	6.3×11	100	8×11.5	120
33	330	5×11	55	5×11	75	5×11	85	5×11	90	5×11	95	6.3×11	110	6.3×11	120	10×12.5	150
47	470	5×11	75	5×11	90	5×11	100	5×11	110	6.3×11	120	6.3×11	140	8×11.5	170	10×16	190
100	101	5×11	120	5×11	130	6.3×11	160	6.3×11	170	8×11.5	210	8×11.5	230	10×12.5	270	12.5×20	330
220	221	6.3×11	200	6.3×11	220	8×11.5	280	8×11.5	300	10×12.5	340	10×16	380	10×20	440	16×25	520
330	331	6.3×11	250	8×11.5	310	8×11.5	340	10×12.5	390	10×16	430	10×20	490	12.5×20	600	16×25	630
470	471	8×11.5	340	8×11.5	370	10×12.5	440	10×16	480	10×20	540	12.5×20	660	12.5×25	740	16×31.5	780
1000	102	10×12.5	530	10×16	600	10×20	700	12.5×20	830	12.5×25	910	16×25	1000	16×31.5	1100	18×40	1200
2200	222	12.5×20	930	12.5×20	1000	12.5×25	1100	16×25	1200	16×31.5	1300	18×35.5	1450	18×40	1600		
3300	332	12.5×20	1050	12.5×25	1200	16×25	1350	16×31.5	1450	18×35.5	1600	20×40	1750				
4700	472	16×25	1300	16×25	1400	16×31.5	1550	18×35.5	1700	18×40	1850						
6800	682	16×25	1500	16×31.5	1650	18×35.5	1850	20×40	2000								
10000	103	16×31.5	1700	18×35.5	1850	18×40	2000										
15000	153	18×35.5	1950	18×40	2050												
22000	223	20×40	2200													Case size	Rated ripple

Rated Ripple (mA rms) at 85°C 120Hz

● Frequency coefficient of rated ripple current

Cap.(μF)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz ~
~ 47		0.75	1.00	1.35	1.57	2.00
100 ~ 470		0.80	1.00	1.23	1.34	1.50
1000 ~ 22000		0.85	1.00	1.10	1.13	1.15