

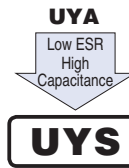
ALUMINUM ELECTROLYTIC CAPACITORS

UYS

Chip Type, Long Life Assurance



For SMD



Expanded



- Chip type, Extended load life of 5000hours at +125°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 Qualified. Please contact us for details.

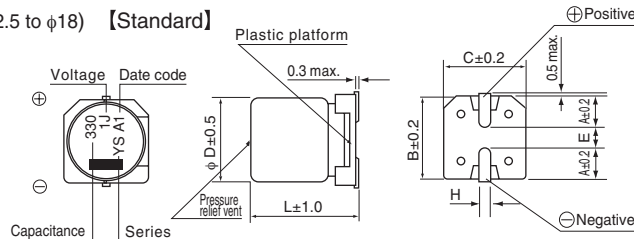
Specifications

Item	Performance Characteristics							
Category Temperature Range	-40 to +125°C							
Rated Voltage Range	16 to 100V							
Rated Capacitance Range	110 to 6700μF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current ※	After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01 CV (μA).							
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C							
	Rated voltage (V)	16	25	35	50	63	80	100
	tan δ (max.)	0.23	0.18	0.16	0.16	0.12	0.12	0.10
For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF.								
Stability at Low Temperature	Measurement frequency : 120Hz							
	Rated voltage (V)	16	25	35	50	63	80	100
	Impedance ratio (max.)	Z(-40°C) / Z(+20°C)	8	6	4	4	3	3
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 5000 hours at 125°C.							
Shelf Life	After storing the capacitors under no load at 125°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.							
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate and restored to 20°C.							
Marking	Black print on the case top.							

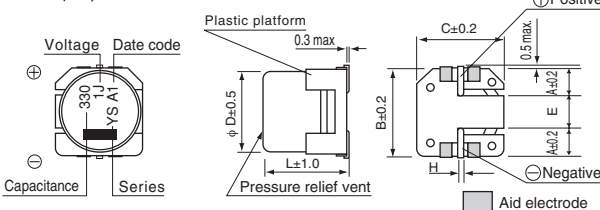
※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Chip Type

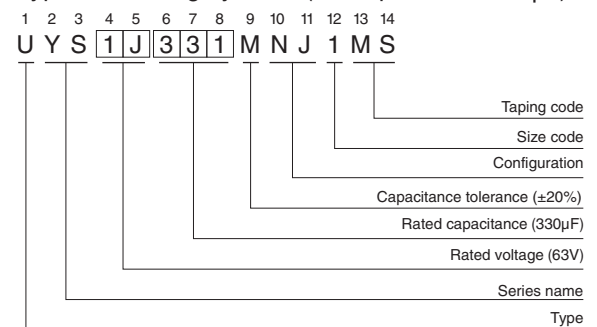
(φ12.5 to φ18) 【Standard】



(φ12.5 to φ18) 【Vibration Resistance】



Type numbering system (Example : 63V 330μF)



Configuration	Code
Standard	NJ
Vibration Resistance	NS

Standard

	φ12.5	φ13.5	φ16	φ16.5	φ18	φ21.5
A	5.15	5.65	5.65	6.65	6.65	
B	13.6	17.1	17.1	19.1	19.1	
C	13.6	17.1	17.1	19.1	19.1	
E	(3.3)	(5.8)	(5.8)	(5.8)	(5.8)	
L	13.5	16.5	21.5	16.5	21.5	
H	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	

Vibration Resistance

	φ12.5	φ16	φ18
A	4.8	5.4	6.4
B	13.6	17.1	19.1
C	13.6	17.1	19.1
E	(4.0)	(6.3)	(6.3)
L	13.5	16.5, 21.5	16.5, 21.5
H	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4

Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
Coefficient	0.35	0.50	0.64	0.83	1.00

●Dimension table in next page.

Design, specifications are subject to change without notice.

NICHICON CORPORATION

Jun. 2026

ALUMINUM ELECTROLYTIC CAPACITORS

UYS

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μF)	Case Size φD×L (mm)	tan δ	Leakage Current (μA) (at 20°C after 2 minute)	ESR (Ω) max.		Rated Ripple (mArms) (125°C/100kHz)	Part Number
					20°C 100kHz	−40°C 100kHz		
16 (1C)	1800	12.5×13.5	0.23	288.0	0.06	0.40	1700	UYS1C182M□□1MS
	3300	16×16.5	0.27	528.0	0.047	0.28	2400	UYS1C332M□□1MS
	4200	18×16.5	0.29	672.0	0.045	0.23	2600	UYS1C422M□□1MS
	5000	16×21.5	0.31	800.0	0.034	0.20	3000	UYS1C502M□□1MS
	6700	18×21.5	0.33	1072.0	0.032	0.16	3250	UYS1C672M□□1MS
25 (1E)	1300	12.5×13.5	0.18	325.0	0.06	0.40	1700	UYS1E132M□□1MS
	2300	16×16.5	0.20	575.0	0.047	0.28	2400	UYS1E232M□□1MS
	3000	18×16.5	0.22	750.0	0.045	0.23	2600	UYS1E302M□□1MS
	3500	16×21.5	0.22	875.0	0.034	0.20	3000	UYS1E352M□□1MS
	4700	18×21.5	0.24	1175.0	0.032	0.16	3250	UYS1E472M□□1MS
35 (1V)	930	12.5×13.5	0.16	325.5	0.06	0.40	1700	UYS1V931M□□1MS
	1600	16×16.5	0.16	560.0	0.047	0.28	2400	UYS1V162M□□1MS
	2100	18×16.5	0.18	735.0	0.045	0.23	2600	UYS1V212M□□1MS
	2500	16×21.5	0.18	875.0	0.034	0.20	3000	UYS1V252M□□1MS
	3300	18×21.5	0.20	1155.0	0.032	0.16	3250	UYS1V332M□□1MS
50 (1H)	470	12.5×13.5	0.16	235.0	0.10	0.44	1300	UYS1H471M□□1MS
	880	16×16.5	0.16	440.0	0.08	0.34	2000	UYS1H881M□□1MS
	1100	18×16.5	0.16	550.0	0.078	0.32	2100	UYS1H112M□□1MS
	1300	16×21.5	0.16	650.0	0.040	0.22	2800	UYS1H132M□□1MS
	1800	18×21.5	0.16	900.0	0.038	0.20	2900	UYS1H182M□□1MS
63 (1J)	270	12.5×13.5	0.12	170.1	0.17	2.5	920	UYS1J271M□□1MS
	330	12.5×13.5	0.12	207.9	0.17	2.5	920	UYS1J331M□□1MS
	500	16×16.5	0.12	315.0	0.10	1.3	1540	UYS1J501M□□1MS
	580	16×16.5	0.12	365.4	0.098	1.3	1640	UYS1J581M□□1MS
	640	18×16.5	0.12	403.2	0.091	1.0	1720	UYS1J641M□□1MS
	780	18×16.5	0.12	491.4	0.091	0.98	1720	UYS1J781M□□1MS
	760	16×21.5	0.12	478.8	0.063	0.80	2220	UYS1J761M□□1MS
	920	16×21.5	0.12	579.6	0.063	0.80	2230	UYS1J921M□□1MS
	1000	18×21.5	0.12	630.0	0.059	0.59	2400	UYS1J102M□□1MS
	1300	18×21.5	0.12	819.0	0.059	0.59	2400	UYS1J132M□□1MS
80 (1K)	200	12.5×13.5	0.12	160.0	0.17	2.5	920	UYS1K201M□□1MS
	350	16×16.5	0.12	280.0	0.098	1.3	1640	UYS1K351M□□1MS
	470	18×16.5	0.12	376.0	0.091	0.98	1720	UYS1K471M□□1MS
	560	16×21.5	0.12	448.0	0.063	0.80	2230	UYS1K561M□□1MS
	750	18×21.5	0.12	600.0	0.059	0.59	2400	UYS1K751M□□1MS
100 (2A)	110	12.5×13.5	0.10	110.0	0.17	2.5	920	UYS2A111M□□1MS
	180	16×16.5	0.10	180.0	0.098	1.3	1640	UYS2A181M□□1MS
	230	18×16.5	0.10	230.0	0.091	0.98	1720	UYS2A231M□□1MS
	270	16×21.5	0.10	270.0	0.063	0.80	2230	UYS2A271M□□1MS
	360	18×21.5	0.10	360.0	0.059	0.59	2400	UYS2A361M□□1MS

□□ : Enter the appropriate configuration code.

- For taping specifications, recommended land size/soldering by reflow and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

Design, specifications are subject to change without notice.

NICHICON CORPORATION