

ALUMINUM ELECTROLYTIC CAPACITORS

UYA Chip Type, Long Life Assurance



- 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.

UYA ← Long Life Higher Capacitance → **UCZ**



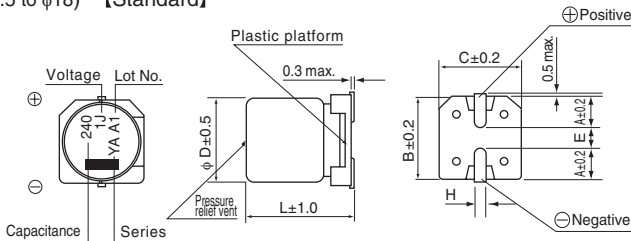
Specifications

Item	Performance Characteristics				
Category Temperature Range	-40 to +125°C				
Rated Voltage Range	63 to 100V				
Rated Capacitance Range	90 to 880μF				
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 0.01CV or 3(μA), whichever is greater.				
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C				
	Rated voltage (V)	63	80	100	
	tan δ (max.)	0.12	0.12	0.1	
Stability at Low Temperature	Measurement frequency : 120Hz				
	Rated voltage (V)	63	80	100	
	Impedance ratio (max.)	Z(-40°C) / Z(+20°C)	3	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.		Capacitance change	Within ±30% of the initial capacitance value	
			tan δ	300% or less than the initial specified value	
			Leakage current	Less than or equal to the initial specified value	
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.		Capacitance change	Within ±10% of the initial capacitance value	
			tan δ	Less than or equal to the initial specified value	
			Leakage current	Less than or equal to the initial specified value	
Marking	Black print on the case top.				

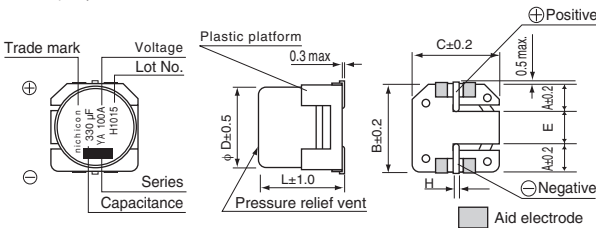
※ I : Leakage Current (μA), C : Rated Capacitance (μF), V : Rated Voltage (V)

Chip Type

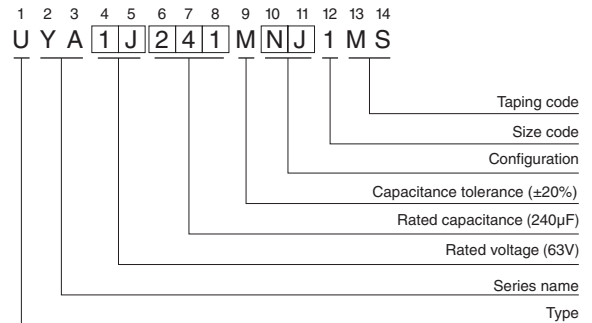
(φ12.5 to φ18) 【Standard】



(φ12.5 to φ18) 【Vibration Resistance】



Type numbering system (Example : 63V 240μF)



Configuration	Code
Standard	NJ
Vibration Resistance	NS

Standard

	(mm)				
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

	(mm)		
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.

UYA

■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D \times L (mm)	tan δ	Leakage Current (μ A) (at 20°C after 2 minutes)	Rated Ripple (mA _{rms}) (125°C/100kHz)	Part Number
63 (1J)	240	12.5 \times 13.5	0.12	151.2	650	UYA1J241M□□1MS
	430	16 \times 16.5	0.12	270.9	930	UYA1J431M□□1MS
	560	18 \times 16.5	0.12	352.8	1000	UYA1J561M□□1MS
	660	16 \times 21.5	0.12	415.8	1500	UYA1J661M□□1MS
	880	18 \times 21.5	0.12	554.4	1600	UYA1J881M□□1MS
80 (1K)	160	12.5 \times 13.5	0.12	128	650	UYA1K161M□□1MS
	270	16 \times 16.5	0.12	216	930	UYA1K271M□□1MS
	360	18 \times 16.5	0.12	288	1000	UYA1K361M□□1MS
	430	16 \times 21.5	0.12	344	1500	UYA1K431M□□1MS
	560	18 \times 21.5	0.12	448	1600	UYA1K561M□□1MS
100 (2A)	90	12.5 \times 13.5	0.10	90	650	UYA2A900M□□1MS
	160	16 \times 16.5	0.10	160	930	UYA2A161M□□1MS
	200	18 \times 16.5	0.10	200	1000	UYA2A201M□□1MS
	240	16 \times 21.5	0.10	240	1500	UYA2A241M□□1MS
	330	18 \times 21.5	0.10	330	1600	UYA2A331M□□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.