ALUMINUM ELECTROLYTIC CAPACITORS



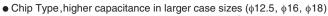
Chip Type, Bi-Polarized,

Higher Capacitance Range









- Designed for surface mounting on high density PC board.
- Bi-polarized series for operations over wide temperature range of -55 to +105°C.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

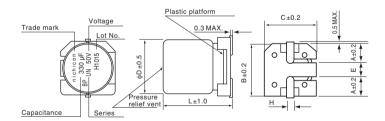




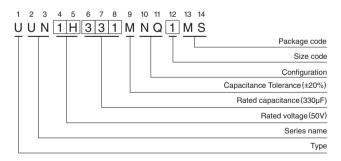
■Specifications

Item	Performance Characteristics											
Category Temperature Range	−55 to +105°C											
Rated Voltage Range	6.3 to 100V											
Rated Capacitance Range	22 to 3300μF											
Capacitance Tolerance	±20% at 120Hz, 20	±20% at 120Hz, 20°C										
Leakage Current	After 1 minute's app	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.										
	Measurement frequency : 120Hz at 20°C											
T	Rated voltage (V)	/) 6.3 1			16	25	35	35 50		63	100	
Tangent of loss angle (tan δ)	tan δ (MAX.)	0.26 0.		2	0.18	0.16	0.14	0.12	!	0.10	0.09	
	For capacitance of more than $1000\mu F$, add 0.02 for every increase of $1000\mu F$. ($\phi 12.5$ to $\phi 18$)											
	Measurement frequency: 120Hz											
Stability at Low Temperature		voltage (V)		6.3	10	16	25	35	50		100	
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+2		5	4	3	2	2	2	2	2	
	(MAX.)	Z-40°C / Z+2	20°C	10	8	6	4	3	3	3	3	
	The specifications listed at right shall be met when the capacitors Capacitance change Within ±20% of the initial capacitance value											
Endurance						Within ±20% of the initial capacitance value 200% or less than the initial specified value						
Lituarance	are restored to 20°C after the rated voltage is applied for 2000 tan δ 200% or less than the initial specified value hours at 105°C with the polarity inverted every 250 hours.											
	Learning Committee Policing inverted every 250 flours.											
	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4											
Shelf Life	clause 4.1 at 20°C,	clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
Marking	Black print on the case top.											

■Chip Type



Type numbering system (Example: 50V 330µF)



 $\ensuremath{\mbox{\#}}$ The vibration structure-resistant product is also available upon request, please ask for details.

						(mm)
φD	12.5×13.5	12.5×16	16×16.5	16×21.5	18×16.5	18×21.5
Α	4.8	4.8	5.4	5.4	6.4	6.4
В	13.6	13.6	17.1	17.1	19.1	19.1
С	13.6	13.6	17.1	17.1	19.1	19.1
Е	4.0	4.0	6.3	6.3	6.3	6.3
L	13.5	16.0	16.5	21.5	16.5	21.5
Н	1.0 to 1.4					

UUN

■Dimensions

(1)[V	6.3		10		16		25		35		50		63		100	
(μF) Cap.	Code	0J		1A		1C		1E		1V		1H		1J		2A	
22	220						ļ 									12.5 × 13.5	100
33	330						 		 							12.5 × 16	150
47	470								 			12.5 × 13.5	130	12.5 × 13.5	140	16 × 16.5	180
100	101						<u> </u> 		 	12.5 × 13.5	180	12.5 × 16	230	16 × 16.5	270	18 × 21.5	310
220	221				<u> </u>		ļ	12.5 × 13.5	270	16 × 16.5	330	18 × 16.5	400	18 × 21.5	440		
					1		1		1		1	▲ 16 × 21.5	400		-		
330	331					12.5 × 13.5	310	16 × 16.5	370	18 × 16.5	450	18 × 21.5	540				.il
330	331		!		1		-		1	▲16×21.5	450		!	▲18×21.5	590		
470	471	12.5 × 13.5	270	12.5 × 13.5	340	16 × 16.5	420	16 × 16.5	490	18 × 21.5	590		-				\Box
470	4/1		ļ .		[Ţ		Ţ]	▲ 18 × 21.5	640		Ţ		ŢŢ
1000	400	12.5 × 16	500	16 × 16.5	600	18 × 16.5	670	18 × 21.5	780		!		i		i		
1000	102					▲16 × 21.5	670										ļ
0000	000	18 × 16.5	740	18 × 21.5	830		-										\Box
2200	222	▲ 16 × 21.5	740						†								!
3300	332	18 × 21.5	920		İ		İ		İ						İ	Case size	Rated
3300	002				-				-						-	φD×L (mm)	ripple

[※] In this case, 6 will be put at 12th digit of type numbering system, "▲"

Rated ripple current (mArms) at 105°C 120Hz

• Frequency coefficient of rated ripple current

Cap.(µF) Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
22 to 47	0.75	1.00	1.35	1.57	2.00
100 to 470	0.80	1.00	1.23	1.34	1.50
1000 to 3300	0.85	1.00	1.10	1.13	1.15

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

Mouser Electronics

Authorized Distributor

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Nichicon:

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        UUN1H101MNL1MS
        UUL1V4R7MCL1GS
        UUN0J102MNQ1MS
        UUN0J222MNQ1MS
        UUN0J222MNQ6MS

        UUN0J332MNQ1MS
        UUN0J471MNQ1MS
        UUN1A102MNQ1MS
        UUN1A222MNQ1MS
        UUN1A471MNQ1MS

        UUN1C102MNQ1MS
        UUN1C102MNQ6MS
        UUN1C331MNQ1MS
        UUN1C471MNQ1MS
        UUN1E102MNQ1MS

        UUN1H221MNQ1MS
        UUN1E331MNQ1MS
        UUN1H471MNQ1MS
        UUN1H101MNQ1MS
        UUN1H221MNQ1MS

        UUN1J221MNQ1MS
        UUN1J331MNQ1MS
        UUN1J470MNQ1MS
        UUN1V101MNQ1MS
        UUN1J101MNQ1MS

        UUN1V331MNQ1MS
        UUN1V331MNQ6MS
        UUN1V471MNQ1MS
        UUN2A101MNQ1MS
        UUN2A220MNQ1MS

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        UUN1V471MNQ1ZD
        UUN0J222MNQ6ZD
        UUN1H221MNQ1ZD
        UUN1A471MNQ1ZD

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        UUN1A471MNQ1ZD
        UUN1A471MNQ1ZD

        UUN1V331MNQ1ZD
        UUN1A222MNQ1ZD
        UUN1E331MNQ1ZD
        UUN2A101MNQ1ZD
        UUN2A101MNQ1ZD

        UUN1H331MNQ1ZD
        UUN1H221MNQ6ZD
        UUN1L221MNQ1ZD
        UUN1E331MNQ1ZD
        UUN2A220MNQ1ZD

        UUN1H331MNQ1ZD
        UUN1J331MRQ1ZD
        UUN1J331MRQ1ZD
        UUN1J470MNQ1ZD
        UUN1H470MNQ1ZD
        UUN1H470MNQ1ZD
        UUN1H470MNQ1ZD
        UUN1H470M
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