

UUJ

Chip Type, Higher Capacitance Range



For SMD

Long Life

- Chip Type, higher capacitance in larger case sizes ($\phi 12.5$, $\phi 16$, $\phi 18$)
- Designed for surface mounting on high density PC board.
- 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.

UUJ

Bi-Polarized

UUN

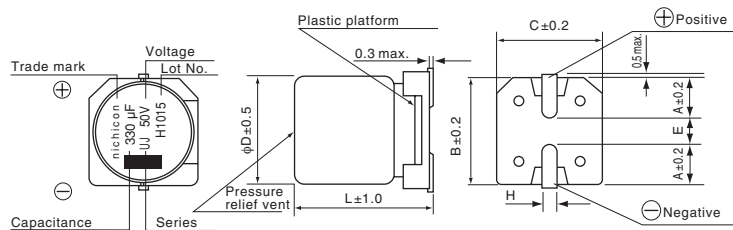


Specifications

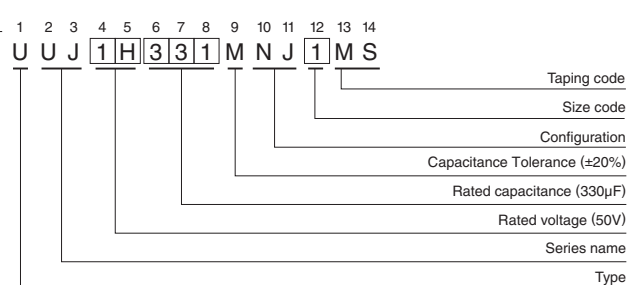
Item	Performance Characteristics										
Category Temperature Range	-55 to +105°C (10 to 100V), -40 to +105°C (160 to 450V)										
Rated Voltage Range	10 to 450V										
Rated Capacitance Range	3.3 to 6800μF										
Capacitance Tolerance	±20% at 120Hz, 20°C										
Leakage Current ※	Rated voltage (V)		10 to 100					160 to 450			
	—		After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV (μA).					I = 0.04CV+100 (μA) max. (1 minute's at 20°C)			
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C										
	Rated voltage (V)	10	16	25	35	50	63	100	160 to 250	400 · 450	
	tan δ (max.)	0.22	0.18	0.16	0.14	0.12	0.10	0.08	0.15	0.20	
	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF. (φ12.5 to φ18)										
Stability at Low Temperature	Measurement frequency: 120Hz										
	Rated voltage (V)		10	16	25	35	50	63	100	160 to 250	400 · 450
	Impedance ratio (max.)	Z(-25°C) / Z(+20°C)	4	3	2	2	2	2	2	3	6
		Z(-40°C) / Z(+20°C)	8	6	4	4	3	3	3	6	10
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 105°C.					Capacitance change		Within ±20% of the initial capacitance value			
						tan δ		200% 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 105°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.										
Marking	Black print on the case top.										

※ I : Leakage Current (μ A), C : Rated Capacitance (μ F), V : Rated Voltage (V)

Chip Type



Type numbering system (Example : 50V 330 μ F)



ϕD	12.5×13.5	12.5×16	12.5×21	16×16.5	16×21.5	18×16.5	18×21.5
A	5.15	5.15	5.15	5.65	5.65	6.65	6.65
B	13.6	13.6	13.6	17.1	17.1	19.1	19.1
C	13.6	13.6	13.6	17.1	17.1	19.1	19.1
E	(3.3)	(3.3)	(3.3)	(5.8)	(5.8)	(5.8)	(5.8)
L	13.5	16.0	21.0	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	1.0 to 1.4	1.0 to 1.4

※ There are also some products that can be manufactured as vibration resistant products.

Frequency coefficient of rated ripple current

V	Cap. (μ F)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
10 to 100	47 to 68	50Hz	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 6800	0.85	1.00	1.10	1.13	1.15
160 to 450	3.3 to 100	50Hz	0.80	1.00	1.25	1.40	1.60

● Dimension table in next page.



Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms) (105°C/120Hz)	Part Number
10 (1A)	1000	12.5 $\times$ 16	0.22	300	500	UUJ1A102MNJ1MS
	2200	16 $\times$ 16.5	0.24	660	810	UUJ1A222MNJ1MS
	2200	12.5 $\times$ 21	0.24	660	810	UUJ1A222MNJ6MS
	3300	18 $\times$ 16.5	0.26	990	1000	UUJ1A332MNJ1MS
	3300	16 $\times$ 21.5	0.26	990	1000	UUJ1A332MNJ6MS
	4700	18 $\times$ 21.5	0.28	1410	1200	UUJ1A472MNJ1MS
	6800	18 $\times$ 21.5	0.32	2040	1450	UUJ1A682MNJ6MS
16 (1C)	470	12.5 $\times$ 13.5	0.18	225.6	360	UUJ1C471MNJ1MS
	1000	16 $\times$ 16.5	0.18	480	630	UUJ1C102MNJ1MS
	1000	12.5 $\times$ 21	0.18	480	630	UUJ1C102MNJ6MS
	2200	18 $\times$ 16.5	0.20	1056	930	UUJ1C222MNJ1MS
	2200	16 $\times$ 21.5	0.20	1056	930	UUJ1C222MNJ6MS
	3300	18 $\times$ 21.5	0.22	1584	1150	UUJ1C332MNJ1MS
25 (1E)	330	12.5 $\times$ 13.5	0.16	247.5	320	UUJ1E331MNJ1MS
	470	12.5 $\times$ 16	0.16	352.5	400	UUJ1E471MNJ1MS
	1000	18 $\times$ 16.5	0.16	750	700	UUJ1E102MNJ1MS
	1000	16 $\times$ 21.5	0.16	750	700	UUJ1E102MNJ6MS
	2200	18 $\times$ 21.5	0.18	1650	1050	UUJ1E222MNJ1MS
35 (1V)	220	12.5 $\times$ 13.5	0.14	231	280	UUJ1V221MNJ1MS
	330	12.5 $\times$ 16	0.14	346.5	360	UUJ1V331MNJ1MS
	470	16 $\times$ 16.5	0.14	493.5	490	UUJ1V471MNJ1MS
	470	12.5 $\times$ 21	0.14	493.5	490	UUJ1V471MNJ6MS
	1000	18 $\times$ 16.5	0.14	1050	750	UUJ1V102MNJ1MS
	1000	16 $\times$ 21.5	0.14	1050	750	UUJ1V102MNJ6MS
	2200	18 $\times$ 21.5	0.16	2310	1150	UUJ1V222MNJ6MS
50 (1H)	220	12.5 $\times$ 16	0.12	330	320	UUJ1H221MNJ1MS
	330	16 $\times$ 16.5	0.12	495	440	UUJ1H331MNJ1MS
	330	12.5 $\times$ 21	0.12	495	440	UUJ1H331MNJ6MS
	470	18 $\times$ 16.5	0.12	705	550	UUJ1H471MNJ1MS
	470	16 $\times$ 21.5	0.12	705	550	UUJ1H471MNJ6MS
	1000	18 $\times$ 21.5	0.12	1500	820	UUJ1H102MNJ1MS
63 (1J)	68	12.5 $\times$ 13.5	0.10	128.52	175	UUJ1J680MNJ1MS
	100	12.5 $\times$ 16	0.10	189	225	UUJ1J101MNJ1MS
	220	16 $\times$ 16.5	0.10	415.8	385	UUJ1J221MNJ1MS
	220	12.5 $\times$ 21	0.10	415.8	385	UUJ1J221MNJ6MS
	330	18 $\times$ 16.5	0.10	623.7	490	UUJ1J331MNJ1MS
	330	16 $\times$ 21.5	0.10	623.7	490	UUJ1J331MNJ6MS
	470	18 $\times$ 21.5	0.10	888.3	590	UUJ1J471MNJ1MS



■ Dimensions

Rated Voltage (V) (code)	Rated Capacitance (μ F)	Case Size ϕ D $\times$ L (mm)	$\tan \delta$	Leakage Current (μ A) (at 20°C after 1 minute)	Rated Ripple (mArms) (105°C/120Hz)	Part Number
100 (2A)	47	12.5 $\times$ 13.5	0.08	141	160	UUJ2A470M NJ1MS
	68	12.5 $\times$ 16	0.08	204	205	UUJ2A680M NJ1MS
	100	16 $\times$ 16.5	0.08	300	285	UUJ2A101M NJ1MS
	100	12.5 $\times$ 21	0.08	300	285	UUJ2A101M NJ6MS
	220	18 $\times$ 16.5	0.08	660	440	UUJ2A221M NJ1MS
	220	16 $\times$ 21.5	0.08	660	440	UUJ2A221M NJ6MS
	330	18 $\times$ 21.5	0.08	990	500	UUJ2A331M NJ6MS
160 (2C)	33	12.5 $\times$ 13.5	0.15	311.2	95	UUJ2C330M NJ1MS
	47	16 $\times$ 16.5	0.15	400.8	260	UUJ2C470M NJ1MS
	47	12.5 $\times$ 21	0.15	400.8	260	UUJ2C470M NJ6MS
	68	18 $\times$ 16.5	0.15	535.2	320	UUJ2C680M NJ1MS
	68	16 $\times$ 21.5	0.15	535.2	320	UUJ2C680M NJ6MS
	100	16 $\times$ 21.5	0.15	740	380	UUJ2C101M NJ1MS
200 (2D)	10	12.5 $\times$ 13.5	0.15	180	80	UUJ2D100M NJ1MS
	22	12.5 $\times$ 16	0.15	276	105	UUJ2D220M NJ1MS
	33	16 $\times$ 16.5	0.15	364	220	UUJ2D330M NJ1MS
	33	12.5 $\times$ 21	0.15	364	220	UUJ2D330M NJ6MS
	47	18 $\times$ 16.5	0.15	476	270	UUJ2D470M NJ1MS
	47	16 $\times$ 21.5	0.15	476	270	UUJ2D470M NJ6MS
	68	18 $\times$ 21.5	0.15	644	330	UUJ2D680M NJ1MS
	100	18 $\times$ 21.5	0.15	900	410	UUJ2D101M NJ6MS
250 (2E)	4.7	12.5 $\times$ 13.5	0.15	147	65	UUJ2E4R7M NJ1MS
	10	12.5 $\times$ 16	0.15	200	105	UUJ2E100M NJ1MS
	22	16 $\times$ 16.5	0.15	320	180	UUJ2E220M NJ1MS
	22	12.5 $\times$ 21	0.15	320	180	UUJ2E220M NJ6MS
	33	18 $\times$ 16.5	0.15	430	230	UUJ2E330M NJ1MS
	33	16 $\times$ 21.5	0.15	430	230	UUJ2E330M NJ6MS
	47	18 $\times$ 21.5	0.15	570	280	UUJ2E470M NJ1MS
	68	18 $\times$ 21.5	0.15	780	340	UUJ2E680M NJ6MS
400 (2G)	4.7	12.5 $\times$ 16	0.20	175.2	50	UUJ2G4R7M NJ1MS
	10	16 $\times$ 16.5	0.20	260	85	UUJ2G100M NJ1MS
	22	18 $\times$ 21.5	0.20	452	130	UUJ2G220M NJ1MS
	33	18 $\times$ 21.5	0.20	628	160	UUJ2G330M NJ6MS
450 (2W)	3.3	12.5 $\times$ 13.5	0.20	159.4	40	UUJ2W3R3M NJ1MS
	4.7	12.5 $\times$ 16	0.20	184.6	50	UUJ2W4R7M NJ1MS
	10	16 $\times$ 16.5	0.20	280	85	UUJ2W100M NJ1MS
	22	18 $\times$ 21.5	0.20	496	130	UUJ2W220M NJ1MS
	33	18 $\times$ 21.5	0.20	694	160	UUJ2W330M NJ6MS

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

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