

UPJ1C331MPD Datasheet



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| | |
|------------------------------|--|
| DiGi Electronics Part Number | UPJ1C331MPD-DG |
| Manufacturer | Nichicon |
| Manufacturer Product Number | UPJ1C331MPD |
| Description | CAP ALUM 330UF 20% 16V RADIAL |
| Detailed Description | 330 μ F 16 V Aluminum Electrolytic Capacitors Radial, Can 3000 Hrs @ 105°C |

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Purchase and inquiry

Manufacturer Product Number:

UPJ1C331MPD

Series:

UPJ

Capacitance:

330 μ F

Voltage - Rated:

16 V

Lifetime @ Temp.:

3000 Hrs @ 105°C

Polarization:

Polar

Applications:

General Purpose

Impedance:

180 mOhms

Size / Dimension:

0.315" Dia (8.00mm)

Surface Mount Land Size:

-

Package / Case:

Radial, Can

Manufacturer:

Nichicon

Product Status:

Not For New Designs

Tolerance:

\pm 20%

ESR (Equivalent Series Resistance):

-

Operating Temperature:

-55°C ~ 105°C

Ratings:

-

Ripple Current @ Low Frequency:

455 mA @ 120 Hz

Lead Spacing:

0.138" (3.50mm)

Height - Seated (Max):

0.630" (16.00mm)

Mounting Type:

Through Hole

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8532.22.0020

Moisture Sensitivity Level (MSL):

Not Applicable

ECCN:

EAR99

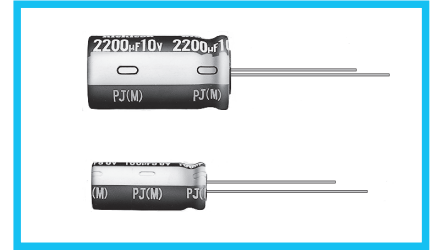
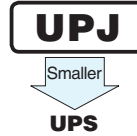
ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

Low Impedance, For Switching Power Supplies



- Low impedance and high reliability withstanding 5000 hours load life at +105°C (3000 hours for smaller case sizes as specified below).
- Capacitance ranges available based on the numerical values in E12 series under JIS.
- Ideally suited for use of switching power supplies.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).

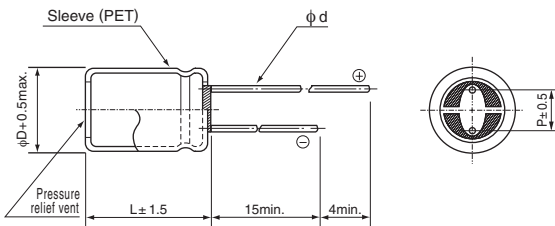


Specifications

| Item | Performance Characteristics | |
|-------------------------------|---|---|
| Category Temperature Range | -55 to +105°C | |
| Rated Voltage Range | 6.3 to 100V | |
| Rated Capacitance Range | 22 to 15000µF | |
| Capacitance Tolerance | ±20% at 120Hz, 20°C | |
| Leakage Current ※ | After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV (µA). | |
| Tangent of loss angle (tan δ) | 120Hz, 20°C | |
| | Rated Voltage (V) | 6.3 10 16 25 35 50 63 to 100 |
| | tan δ (max.) | 0.22 0.19 0.16 0.14 0.12 0.10 0.08 |
| | For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF. | |
| Stability at Low Temperature | 120Hz | |
| | Rated voltage (V) | 6.3-10 16 25-35 50 to 100 |
| | Impedance ratio (max.) | Z(-55°C) / Z(+20°C) 4 3 3 2 |
| Endurance | The specifications listed below shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied at 105°C for the condition listed at right. The peak voltage shall not exceed the rated voltage. | |
| | Rated Voltage | φD(mm) φ8 ≥φ10 |
| | 6.3~100V | 3000hrs. 5000hrs. |
| | 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 at right. | |
| | Capacitance change | Within ±20% of the initial capacitance value |
| | tan δ | 150% or less than the initial specified value |
| | Leakage current | Less than or equal to the initial specified value |
| Marking | Printed with white color letter on dark brown sleeve. | |

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

Radial Lead Type

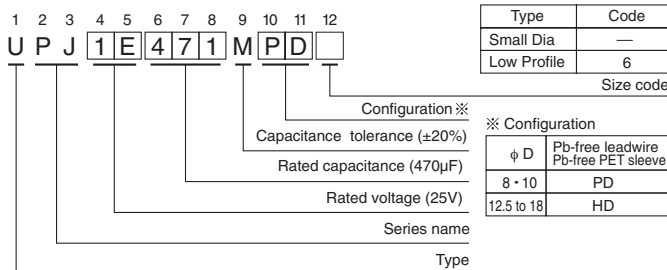


| | (mm) | | | | |
|----|------|-----|------------------|-----|-----|
| φD | 8 | 10 | 12.5 | 16 | 18 |
| P | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| φd | 0.6 | 0.6 | 0.6 [○] | 0.8 | 0.8 |

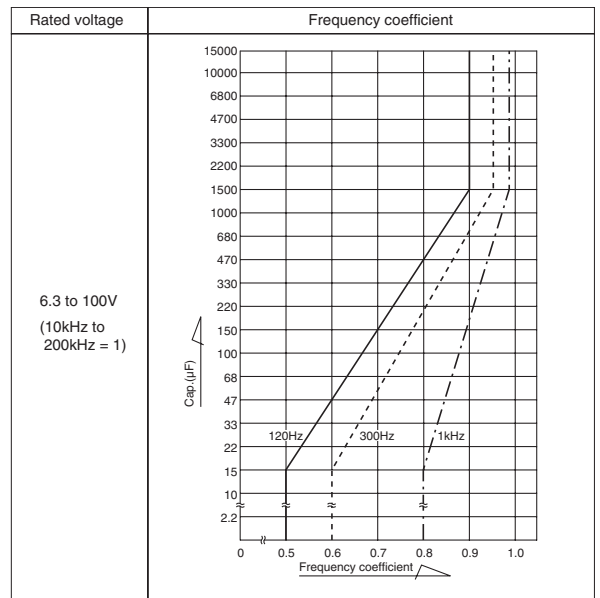
※ In case L > 25 for the φ12.5 dia. unit, lead dia. φd = 0.8mm.

- Please refer to the Guidelines for Aluminum Electrolytic Capacitors for end seal configuration information.

Type numbering system (Example : 25V 470µF)



Frequency coefficient of rated ripple current



ALUMINUM ELECTROLYTIC CAPACITORS

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■ 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 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|---------------------------------|---------------------------------------|--------------|--|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 6.3 (0J) | 390 | 8 \times 11.5 | 0.22 | 73.71 | 0.27 | 0.68 | 445 | 345 | UPJ0J391MPD |
| | 470 | 8 \times 15 | 0.22 | 88.83 | 0.22 | 0.55 | 550 | 435 | UPJ0J471MPD |
| | 470 | 10 \times 12.5 | 0.22 | 88.83 | 0.23 | 0.58 | 575 | 455 | UPJ0J471MPD6 |
| | 560 | 8 \times 15 | 0.22 | 105.84 | 0.19 | 0.48 | 595 | 480 | UPJ0J561MPD |
| | 560 | 10 \times 12.5 | 0.22 | 105.84 | 0.21 | 0.53 | 600 | 485 | UPJ0J561MPD6 |
| | 680 | 8 \times 20 | 0.22 | 128.52 | 0.16 | 0.40 | 730 | 605 | UPJ0J681MPD |
| | 680 | 10 \times 16 | 0.22 | 128.52 | 0.18 | 0.45 | 700 | 580 | UPJ0J681MPD6 |
| | 820 | 8 \times 20 | 0.22 | 154.98 | 0.13 | 0.33 | 795 | 670 | UPJ0J821MPD |
| | 820 | 10 \times 16 | 0.22 | 154.98 | 0.15 | 0.38 | 750 | 635 | UPJ0J821MPD6 |
| | 1000 | 10 \times 20 | 0.22 | 189 | 0.12 | 0.30 | 950 | 820 | UPJ0J102MPD |
| | 1000 | 12.5 \times 15 | 0.22 | 189 | 0.13 | 0.33 | 890 | 765 | UPJ0J102MHD6 |
| | 1200 | 10 \times 20 | 0.22 | 226.8 | 0.10 | 0.25 | 1020 | 895 | UPJ0J122MPD |
| | 1200 | 12.5 \times 15 | 0.22 | 226.8 | 0.12 | 0.30 | 950 | 835 | UPJ0J122MHD6 |
| | 1500 | 10 \times 25 | 0.22 | 283.5 | 0.084 | 0.21 | 1220 | 1090 | UPJ0J152MPD |
| | 1500 | 12.5 \times 15 | 0.22 | 283.5 | 0.10 | 0.25 | 1020 | 915 | UPJ0J152MHD6 |
| | 1800 | 10 \times 30.5 | 0.22 | 340.2 | 0.078 | 0.20 | 1370 | 1230 | UPJ0J182MPD |
| | 1800 | 16 \times 15 | 0.22 | 340.2 | 0.084 | 0.21 | 1270 | 1140 | UPJ0J182MHD6 |
| | 2200 | 10 \times 30.5 | 0.24 | 415.8 | 0.066 | 0.17 | 1470 | 1320 | UPJ0J222MPD |
| | 2200 | 16 \times 15 | 0.24 | 415.8 | 0.078 | 0.20 | 1340 | 1200 | UPJ0J222MHD6 |
| | 2700 | 12.5 \times 25 | 0.24 | 510.3 | 0.051 | 0.14 | 1590 | 1430 | UPJ0J272MHD |
| | 2700 | 18 \times 15 | 0.24 | 510.3 | 0.072 | 0.18 | 1500 | 1350 | UPJ0J272MHD6 |
| | 3300 | 12.5 \times 25 | 0.26 | 623.7 | 0.045 | 0.11 | 1710 | 1530 | UPJ0J332MHD |
| | 3300 | 18 \times 15 | 0.26 | 623.7 | 0.065 | 0.16 | 1600 | 1440 | UPJ0J332MHD6 |
| | 3900 | 12.5 \times 30.5 | 0.26 | 737.1 | 0.037 | 0.093 | 1910 | 1710 | UPJ0J392MHD |
| | 3900 | 16 \times 20 | 0.26 | 737.1 | 0.056 | 0.14 | 1720 | 1540 | UPJ0J392MHD6 |
| | 4700 | 12.5 \times 35.5 | 0.28 | 888.3 | 0.034 | 0.085 | 2100 | 1890 | UPJ0J472MHD |
| | 4700 | 18 \times 20 | 0.28 | 888.3 | 0.050 | 0.13 | 1920 | 1720 | UPJ0J472MHD6 |
| | 5600 | 12.5 \times 40 | 0.30 | 1058.4 | 0.031 | 0.078 | 2270 | 2040 | UPJ0J562MHD |
| | 5600 | 18 \times 20 | 0.30 | 1058.4 | 0.047 | 0.12 | 1980 | 1780 | UPJ0J562MHD6 |
| | 6800 | 16 \times 30.5 | 0.32 | 1285.2 | 0.029 | 0.073 | 2370 | 2130 | UPJ0J682MHD |
| | 6800 | 18 \times 25 | 0.32 | 1285.2 | 0.039 | 0.098 | 2210 | 1980 | UPJ0J682MHD6 |
| | 8200 | 16 \times 35.5 | 0.36 | 1549.8 | 0.027 | 0.068 | 2550 | 2290 | UPJ0J822MHD |
| | 8200 | 18 \times 30.5 | 0.36 | 1549.8 | 0.031 | 0.078 | 2390 | 2150 | UPJ0J822MHD6 |
| 10000 | 16 \times 40 | 0.40 | 1890 | 0.025 | 0.063 | 2750 | 2470 | UPJ0J103MHD | |
| 10000 | 18 \times 30.5 | 0.40 | 1890 | 0.028 | 0.070 | 2490 | 2240 | UPJ0J103MHD6 | |
| 12000 | 18 \times 35.5 | 0.44 | 2268 | 0.023 | 0.058 | 2820 | 2530 | UPJ0J123MHD | |
| 15000 | 18 \times 40 | 0.50 | 2835 | 0.022 | 0.055 | 2960 | 2660 | UPJ0J153MHD | |

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If there is no size code in the part number, please add size code "1" and then add the appropriate code.

ALUMINUM ELECTROLYTIC CAPACITORS

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■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 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|---------------------------------|---------------------------------------|--------------|--|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 10 (1A) | 330 | 8 \times 11.5 | 0.19 | 99 | 0.26 | 0.65 | 460 | 350 | UPJ1A331MPD |
| | 390 | 8 \times 15 | 0.19 | 117 | 0.22 | 0.55 | 550 | 430 | UPJ1A391MPD |
| | 390 | 10 \times 12.5 | 0.19 | 117 | 0.24 | 0.60 | 555 | 430 | UPJ1A391MPD6 |
| | 470 | 8 \times 15 | 0.19 | 141 | 0.19 | 0.48 | 595 | 475 | UPJ1A471MPD |
| | 470 | 10 \times 12.5 | 0.19 | 141 | 0.21 | 0.53 | 600 | 475 | UPJ1A471MPD6 |
| | 560 | 8 \times 20 | 0.19 | 168 | 0.16 | 0.40 | 730 | 590 | UPJ1A561MPD |
| | 560 | 10 \times 16 | 0.19 | 168 | 0.18 | 0.45 | 700 | 565 | UPJ1A561MPD6 |
| | 680 | 8 \times 20 | 0.19 | 204 | 0.13 | 0.33 | 795 | 660 | UPJ1A681MPD |
| | 680 | 10 \times 16 | 0.19 | 204 | 0.14 | 0.35 | 770 | 635 | UPJ1A681MPD6 |
| | 820 | 10 \times 20 | 0.19 | 246 | 0.11 | 0.28 | 985 | 835 | UPJ1A821MPD |
| | 820 | 12.5 \times 15 | 0.19 | 246 | 0.13 | 0.33 | 920 | 780 | UPJ1A821MHD6 |
| | 1000 | 10 \times 20 | 0.19 | 300 | 0.096 | 0.24 | 1060 | 915 | UPJ1A102MPD |
| | 1000 | 12.5 \times 15 | 0.19 | 300 | 0.10 | 0.25 | 1040 | 895 | UPJ1A102MHD6 |
| | 1200 | 10 \times 25 | 0.19 | 360 | 0.078 | 0.20 | 1280 | 1120 | UPJ1A122MPD |
| | 1200 | 12.5 \times 15 | 0.19 | 360 | 0.096 | 0.24 | 1060 | 930 | UPJ1A122MHD6 |
| | 1500 | 10 \times 30.5 | 0.19 | 450 | 0.072 | 0.18 | 1440 | 1290 | UPJ1A152MPD |
| | 1500 | 16 \times 15 | 0.19 | 450 | 0.078 | 0.20 | 1330 | 1190 | UPJ1A152MHD6 |
| | 1800 | 12.5 \times 20 | 0.19 | 540 | 0.057 | 0.14 | 1470 | 1320 | UPJ1A182MHD |
| | 1800 | 16 \times 15 | 0.19 | 540 | 0.072 | 0.18 | 1420 | 1270 | UPJ1A182MHD6 |
| | 2200 | 12.5 \times 25 | 0.21 | 660 | 0.045 | 0.11 | 1710 | 1530 | UPJ1A222MHD |
| | 2200 | 18 \times 15 | 0.21 | 660 | 0.060 | 0.15 | 1600 | 1440 | UPJ1A222MHD6 |
| | 2700 | 12.5 \times 30.5 | 0.21 | 810 | 0.036 | 0.09 | 1940 | 1740 | UPJ1A272MHD |
| | 2700 | 16 \times 20 | 0.21 | 810 | 0.051 | 0.13 | 1740 | 1560 | UPJ1A272MHD6 |
| | 3300 | 12.5 \times 35.5 | 0.23 | 990 | 0.032 | 0.08 | 2180 | 1960 | UPJ1A332MHD |
| | 3300 | 16 \times 20 | 0.23 | 990 | 0.045 | 0.11 | 1850 | 1660 | UPJ1A332MHD6 |
| | 3900 | 12.5 \times 40 | 0.23 | 1170 | 0.030 | 0.075 | 2360 | 2120 | UPJ1A392MHD |
| | 3900 | 18 \times 20 | 0.23 | 1170 | 0.041 | 0.10 | 2050 | 1840 | UPJ1A392MHD6 |
| | 4700 | 16 \times 30.5 | 0.25 | 1410 | 0.028 | 0.070 | 2420 | 2170 | UPJ1A472MHD |
| | 4700 | 18 \times 25 | 0.25 | 1410 | 0.035 | 0.088 | 2250 | 2020 | UPJ1A472MHD6 |
| | 5600 | 16 \times 35.5 | 0.27 | 1680 | 0.026 | 0.065 | 2610 | 2340 | UPJ1A562MHD |
| | 5600 | 18 \times 25 | 0.27 | 1680 | 0.033 | 0.083 | 2340 | 2100 | UPJ1A562MHD6 |
| | 6800 | 16 \times 35.5 | 0.29 | 2040 | 0.024 | 0.060 | 2680 | 2410 | UPJ1A682MHD |
| | 6800 | 18 \times 30.5 | 0.29 | 2040 | 0.027 | 0.068 | 2540 | 2280 | UPJ1A682MHD6 |
| 8200 | 16 \times 40 | 0.33 | 2460 | 0.023 | 0.058 | 2820 | 2530 | UPJ1A822MHD | |
| 8200 | 18 \times 35.5 | 0.33 | 2460 | 0.025 | 0.063 | 2690 | 2420 | UPJ1A822MHD6 | |
| 10000 | 18 \times 40 | 0.37 | 3000 | 0.021 | 0.053 | 3040 | 2730 | UPJ1A103MHD | |

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).

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ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size $\phi\text{D}\times\text{L}$ (mm) | $\tan \delta$ | Leakage Current (μA) (at 20°C after 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|--|--|---------------|---|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 16 (1C) | 220 | 8×11.5 | 0.16 | 105.6 | 0.26 | 0.65 | 460 | 335 | UPJ1C221MPD |
| | 270 | 8×15 | 0.16 | 129.6 | 0.22 | 0.55 | 550 | 410 | UPJ1C271MPD |
| | 270 | 10×12.5 | 0.16 | 129.6 | 0.22 | 0.55 | 575 | 430 | UPJ1C271MPD6 |
| | 330 | 8×15 | 0.16 | 158.4 | 0.18 | 0.45 | 595 | 455 | UPJ1C331MPD |
| | 330 | 10×12.5 | 0.16 | 158.4 | 0.18 | 0.45 | 625 | 480 | UPJ1C331MPD6 |
| | 390 | 8×20 | 0.16 | 187.2 | 0.16 | 0.40 | 730 | 570 | UPJ1C391MPD |
| | 390 | 10×16 | 0.16 | 187.2 | 0.16 | 0.40 | 730 | 570 | UPJ1C391MPD6 |
| | 470 | 8×20 | 0.16 | 225.6 | 0.14 | 0.35 | 770 | 615 | UPJ1C471MPD |
| | 470 | 10×16 | 0.16 | 225.6 | 0.14 | 0.35 | 770 | 615 | UPJ1C471MPD6 |
| | 560 | 10×20 | 0.16 | 268.8 | 0.12 | 0.30 | 950 | 770 | UPJ1C561MPD |
| | 560 | 12.5×15 | 0.16 | 268.8 | 0.13 | 0.33 | 920 | 745 | UPJ1C561MHD6 |
| | 680 | 10×20 | 0.16 | 326.4 | 0.10 | 0.25 | 1020 | 845 | UPJ1C681MPD |
| | 680 | 12.5×15 | 0.16 | 326.4 | 0.11 | 0.28 | 985 | 815 | UPJ1C681MHD6 |
| | 820 | 10×25 | 0.16 | 393.6 | 0.084 | 0.21 | 1220 | 1030 | UPJ1C821MPD |
| | 820 | 12.5×15 | 0.16 | 393.6 | 0.096 | 0.24 | 1060 | 895 | UPJ1C821MHD6 |
| | 1000 | 10×30.5 | 0.16 | 480 | 0.072 | 0.18 | 1410 | 1210 | UPJ1C102MPD |
| | 1000 | 16×15 | 0.16 | 480 | 0.084 | 0.21 | 1270 | 1090 | UPJ1C102MHD6 |
| | 1200 | 12.5×20 | 0.16 | 576 | 0.060 | 0.15 | 1430 | 1250 | UPJ1C122MHD |
| | 1200 | 16×15 | 0.16 | 576 | 0.072 | 0.18 | 1390 | 1220 | UPJ1C122MHD6 |
| | 1500 | 12.5×25 | 0.16 | 720 | 0.048 | 0.12 | 1660 | 1490 | UPJ1C152MHD |
| | 1500 | 18×15 | 0.16 | 720 | 0.066 | 0.17 | 1560 | 1400 | UPJ1C152MHD6 |
| | 1800 | 12.5×30.5 | 0.16 | 864 | 0.039 | 0.10 | 1880 | 1690 | UPJ1C182MHD |
| | 1800 | 16×20 | 0.16 | 864 | 0.054 | 0.14 | 1700 | 1530 | UPJ1C182MHD6 |
| | 2200 | 12.5×30.5 | 0.18 | 1056 | 0.034 | 0.085 | 2010 | 1800 | UPJ1C222MHD |
| | 2200 | 16×20 | 0.18 | 1056 | 0.048 | 0.12 | 1800 | 1620 | UPJ1C222MHD6 |
| | 2700 | 12.5×35.5 | 0.18 | 1296 | 0.031 | 0.078 | 2220 | 1990 | UPJ1C272MHD |
| | 2700 | 16×25 | 0.18 | 1296 | 0.040 | 0.10 | 2010 | 1800 | UPJ1C272MHD6 |
| | 3300 | 12.5×40 | 0.20 | 1584 | 0.028 | 0.07 | 2410 | 2160 | UPJ1C332MHD |
| | 3300 | 18×20 | 0.20 | 1584 | 0.039 | 0.10 | 2090 | 1880 | UPJ1C332MHD6 |
| | 3900 | 16×30.5 | 0.20 | 1872 | 0.027 | 0.068 | 2470 | 2220 | UPJ1C392MHD |
| | 3900 | 18×25 | 0.20 | 1872 | 0.034 | 0.085 | 2290 | 2060 | UPJ1C392MHD6 |
| | 4700 | 16×35.5 | 0.22 | 2256 | 0.025 | 0.063 | 2680 | 2410 | UPJ1C472MHD |
| 4700 | 18×30.5 | 0.22 | 2256 | 0.028 | 0.070 | 2490 | 2240 | UPJ1C472MHD6 | |
| 5600 | 16×40 | 0.24 | 2688 | 0.024 | 0.060 | 2820 | 2530 | UPJ1C562MHD | |
| 5600 | 18×35.5 | 0.24 | 2688 | 0.027 | 0.068 | 2620 | 2350 | UPJ1C562MHD6 | |
| 6800 | 18×35.5 | 0.26 | 3264 | 0.022 | 0.055 | 2900 | 2610 | UPJ1C682MHD | |
| 8200 | 18×40 | 0.30 | 3936 | 0.021 | 0.053 | 3040 | 2730 | UPJ1C822MHD | |

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ALUMINUM ELECTROLYTIC CAPACITORS

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■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size $\phi\text{D}\times\text{L}$ (mm) | $\tan \delta$ | Leakage Current (μA) (at 20°C after 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|--|--|---------------|---|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 25 (1E) | 150 | 8×11.5 | 0.14 | 112.5 | 0.26 | 0.65 | 460 | 320 | UPJ1E151MPD |
| | 180 | 8×15 | 0.14 | 135 | 0.22 | 0.55 | 550 | 390 | UPJ1E181MPD |
| | 180 | 10×12.5 | 0.14 | 135 | 0.24 | 0.60 | 555 | 395 | UPJ1E181MPD6 |
| | 220 | 8×15 | 0.14 | 165 | 0.18 | 0.45 | 625 | 455 | UPJ1E221MPD |
| | 220 | 10×12.5 | 0.14 | 165 | 0.21 | 0.53 | 600 | 435 | UPJ1E221MPD6 |
| | 270 | 8×20 | 0.14 | 202.5 | 0.15 | 0.38 | 750 | 560 | UPJ1E271MPD |
| | 270 | 10×16 | 0.14 | 202.5 | 0.18 | 0.45 | 700 | 525 | UPJ1E271MPD6 |
| | 330 | 8×20 | 0.14 | 247.5 | 0.13 | 0.33 | 795 | 610 | UPJ1E331MPD |
| | 330 | 10×16 | 0.14 | 247.5 | 0.15 | 0.38 | 750 | 575 | UPJ1E331MPD6 |
| | 390 | 10×20 | 0.14 | 292.5 | 0.11 | 0.28 | 985 | 770 | UPJ1E391MPD |
| | 390 | 12.5×15 | 0.14 | 292.5 | 0.13 | 0.33 | 920 | 720 | UPJ1E391MHD6 |
| | 470 | 10×20 | 0.14 | 352.5 | 0.10 | 0.25 | 1020 | 810 | UPJ1E471MPD |
| | 470 | 12.5×15 | 0.14 | 352.5 | 0.11 | 0.28 | 985 | 785 | UPJ1E471MHD6 |
| | 560 | 10×25 | 0.14 | 420 | 0.084 | 0.21 | 1220 | 990 | UPJ1E561MPD |
| | 560 | 12.5×15 | 0.14 | 420 | 0.10 | 0.25 | 1060 | 860 | UPJ1E561MHD6 |
| | 680 | 10×30.5 | 0.14 | 510 | 0.072 | 0.18 | 1420 | 1180 | UPJ1E681MPD |
| | 680 | 16×15 | 0.14 | 510 | 0.084 | 0.21 | 1270 | 1050 | UPJ1E681MHD6 |
| | 820 | 12.5×20 | 0.14 | 615 | 0.059 | 0.15 | 1430 | 1210 | UPJ1E821MHD |
| | 820 | 16×15 | 0.14 | 615 | 0.079 | 0.20 | 1340 | 1130 | UPJ1E821MHD6 |
| | 1000 | 12.5×25 | 0.14 | 750 | 0.048 | 0.12 | 1660 | 1430 | UPJ1E102MHD |
| | 1000 | 18×15 | 0.14 | 750 | 0.066 | 0.17 | 1520 | 1310 | UPJ1E102MHD6 |
| | 1200 | 12.5×25 | 0.14 | 900 | 0.043 | 0.11 | 1760 | 1550 | UPJ1E122MHD |
| | 1200 | 18×15 | 0.14 | 900 | 0.061 | 0.15 | 1600 | 1400 | UPJ1E122MHD6 |
| | 1500 | 12.5×30.5 | 0.14 | 1125 | 0.035 | 0.088 | 1980 | 1780 | UPJ1E152MHD |
| | 1500 | 16×20 | 0.14 | 1125 | 0.050 | 0.13 | 1770 | 1590 | UPJ1E152MHD6 |
| | 1800 | 12.5×35.5 | 0.14 | 1350 | 0.032 | 0.08 | 2180 | 1960 | UPJ1E182MHD |
| | 1800 | 16×25 | 0.14 | 1350 | 0.041 | 0.10 | 1980 | 1780 | UPJ1E182MHD6 |
| | 2200 | 12.5×40 | 0.16 | 1650 | 0.029 | 0.073 | 2360 | 2120 | UPJ1E222MHD |
| | 2200 | 18×20 | 0.16 | 1650 | 0.040 | 0.10 | 2050 | 1840 | UPJ1E222MHD6 |
| | 2700 | 16×30.5 | 0.16 | 2025 | 0.027 | 0.068 | 2470 | 2220 | UPJ1E272MHD |
| | 2700 | 18×25 | 0.16 | 2025 | 0.034 | 0.085 | 2290 | 2060 | UPJ1E272MHD6 |
| | 3300 | 16×35.5 | 0.18 | 2475 | 0.025 | 0.063 | 2680 | 2410 | UPJ1E332MHD |
| | 3300 | 18×30.5 | 0.18 | 2475 | 0.029 | 0.073 | 2490 | 2240 | UPJ1E332MHD6 |
| 3900 | 16×40 | 0.18 | 2925 | 0.023 | 0.058 | 2820 | 2530 | UPJ1E392MHD | |
| 3900 | 18×35.5 | 0.18 | 2925 | 0.026 | 0.065 | 2690 | 2420 | UPJ1E392MHD6 | |
| 4700 | 18×40 | 0.20 | 3525 | 0.022 | 0.055 | 2960 | 2660 | UPJ1E472MHD | |

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).
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ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μ F) | Case Size ϕ D×L(mm) | tan δ | Leakage Current (μ A) (at 20°C after 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|---------------------------------|-----------------------------|--------------|--|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 35 (1V) | 100 | 8×11.5 | 0.12 | 105 | 0.26 | 0.65 | 460 | 305 | UPJ1V101MPD |
| | 120 | 8×15 | 0.12 | 126 | 0.22 | 0.55 | 550 | 370 | UPJ1V121MPD |
| | 120 | 10×12.5 | 0.12 | 126 | 0.24 | 0.60 | 555 | 375 | UPJ1V121MPD6 |
| | 150 | 8×15 | 0.12 | 157.5 | 0.18 | 0.45 | 595 | 415 | UPJ1V151MPD |
| | 150 | 10×12.5 | 0.12 | 157.5 | 0.20 | 0.50 | 625 | 435 | UPJ1V151MPD6 |
| | 180 | 8×20 | 0.12 | 189 | 0.16 | 0.40 | 730 | 520 | UPJ1V181MPD |
| | 180 | 10×16 | 0.12 | 189 | 0.18 | 0.45 | 700 | 500 | UPJ1V181MPD6 |
| | 220 | 8×20 | 0.12 | 231 | 0.13 | 0.33 | 795 | 580 | UPJ1V221MPD |
| | 220 | 10×16 | 0.12 | 231 | 0.14 | 0.35 | 770 | 560 | UPJ1V221MPD6 |
| | 270 | 10×20 | 0.12 | 283.5 | 0.11 | 0.28 | 985 | 735 | UPJ1V271MPD |
| | 270 | 12.5×15 | 0.12 | 283.5 | 0.13 | 0.33 | 920 | 690 | UPJ1V271MHD6 |
| | 330 | 10×20 | 0.12 | 346.5 | 0.096 | 0.24 | 1060 | 810 | UPJ1V331MPD |
| | 330 | 12.5×15 | 0.12 | 346.5 | 0.10 | 0.25 | 1020 | 780 | UPJ1V331MHD6 |
| | 390 | 10×25 | 0.12 | 409.5 | 0.084 | 0.21 | 1220 | 955 | UPJ1V391MPD |
| | 390 | 12.5×15 | 0.12 | 409.5 | 0.096 | 0.24 | 1060 | 825 | UPJ1V391MHD6 |
| | 470 | 10×30.5 | 0.12 | 493.5 | 0.072 | 0.18 | 1420 | 1130 | UPJ1V471MPD |
| | 470 | 16×15 | 0.12 | 493.5 | 0.084 | 0.21 | 1270 | 1010 | UPJ1V471MHD6 |
| | 560 | 12.5×20 | 0.12 | 588 | 0.059 | 0.15 | 1430 | 1160 | UPJ1V561MHD |
| | 560 | 16×15 | 0.12 | 588 | 0.075 | 0.19 | 1360 | 1100 | UPJ1V561MHD6 |
| | 680 | 12.5×25 | 0.12 | 714 | 0.048 | 0.12 | 1660 | 1370 | UPJ1V681MHD |
| | 680 | 18×15 | 0.12 | 714 | 0.066 | 0.17 | 1540 | 1270 | UPJ1V681MHD6 |
| | 820 | 12.5×25 | 0.12 | 861 | 0.042 | 0.11 | 1760 | 1490 | UPJ1V821MHD |
| | 820 | 18×15 | 0.12 | 861 | 0.060 | 0.15 | 1620 | 1370 | UPJ1V821MHD6 |
| | 1000 | 12.5×30.5 | 0.12 | 1050 | 0.035 | 0.088 | 1980 | 1710 | UPJ1V102MHD |
| | 1000 | 16×20 | 0.12 | 1050 | 0.050 | 0.13 | 1770 | 1530 | UPJ1V102MHD6 |
| | 1200 | 12.5×35.5 | 0.12 | 1260 | 0.031 | 0.078 | 2180 | 1920 | UPJ1V122MHD |
| | 1200 | 16×25 | 0.12 | 1260 | 0.041 | 0.10 | 1980 | 1740 | UPJ1V122MHD6 |
| | 1500 | 12.5×40 | 0.12 | 1575 | 0.029 | 0.073 | 2360 | 2120 | UPJ1V152MHD |
| | 1500 | 18×20 | 0.12 | 1575 | 0.040 | 0.10 | 2050 | 1840 | UPJ1V152MHD6 |
| | 1800 | 16×30.5 | 0.12 | 1890 | 0.027 | 0.068 | 2470 | 2220 | UPJ1V182MHD |
| | 1800 | 18×25 | 0.12 | 1890 | 0.034 | 0.085 | 2290 | 2060 | UPJ1V182MHD6 |
| | 2200 | 16×35.5 | 0.14 | 2310 | 0.024 | 0.060 | 2680 | 2410 | UPJ1V222MHD |
| | 2200 | 18×30.5 | 0.14 | 2310 | 0.028 | 0.070 | 2490 | 2240 | UPJ1V222MHD6 |
| 2700 | 16×40 | 0.14 | 2835 | 0.022 | 0.055 | 2900 | 2610 | UPJ1V272MHD | |
| 2700 | 18×35.5 | 0.14 | 2835 | 0.026 | 0.065 | 2690 | 2420 | UPJ1V272MHD6 | |
| 3300 | 18×40 | 0.16 | 3465 | 0.021 | 0.053 | 3040 | 2730 | UPJ1V332MHD | |

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ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

■ 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 1 minute) | Impedance (Ω) max. | | Rated Ripple (mA _{rms}) | | Part Number |
|--------------------------------|---------------------------------|---------------------------------------|--------------|--|--------------------------------|------------------|--------------------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 50 (1H) | 68 | 8 \times 11.5 | 0.10 | 102 | 0.28 | 0.70 | 410 | 255 | UPJ1H680MPD |
| | 82 | 8 \times 15 | 0.10 | 123 | 0.22 | 0.55 | 500 | 320 | UPJ1H820MPD |
| | 82 | 10 \times 12.5 | 0.10 | 123 | 0.23 | 0.58 | 510 | 330 | UPJ1H820MPD6 |
| | 100 | 8 \times 20 | 0.10 | 150 | 0.18 | 0.45 | 620 | 410 | UPJ1H101MPD |
| | 100 | 10 \times 16 | 0.10 | 150 | 0.21 | 0.53 | 580 | 385 | UPJ1H101MPD6 |
| | 120 | 8 \times 20 | 0.10 | 180 | 0.16 | 0.40 | 670 | 455 | UPJ1H121MPD |
| | 120 | 10 \times 16 | 0.10 | 180 | 0.17 | 0.43 | 640 | 435 | UPJ1H121MPD6 |
| | 150 | 10 \times 20 | 0.10 | 225 | 0.13 | 0.33 | 820 | 570 | UPJ1H151MPD |
| | 150 | 12.5 \times 15 | 0.10 | 225 | 0.14 | 0.35 | 785 | 545 | UPJ1H151MHD6 |
| | 180 | 10 \times 20 | 0.10 | 270 | 0.11 | 0.28 | 890 | 635 | UPJ1H181MPD |
| | 180 | 12.5 \times 15 | 0.10 | 270 | 0.12 | 0.31 | 845 | 605 | UPJ1H181MHD6 |
| | 220 | 10 \times 25 | 0.10 | 330 | 0.098 | 0.25 | 1040 | 760 | UPJ1H221MPD |
| | 220 | 12.5 \times 15 | 0.10 | 330 | 0.10 | 0.25 | 920 | 670 | UPJ1H221MHD6 |
| | 270 | 10 \times 30.5 | 0.10 | 405 | 0.085 | 0.21 | 1200 | 900 | UPJ1H271MPD |
| | 270 | 16 \times 15 | 0.10 | 405 | 0.091 | 0.23 | 1120 | 840 | UPJ1H271MHD6 |
| | 330 | 10 \times 30.5 | 0.10 | 495 | 0.072 | 0.18 | 1300 | 995 | UPJ1H331MPD |
| | 330 | 16 \times 15 | 0.10 | 495 | 0.078 | 0.20 | 1210 | 925 | UPJ1H331MHD6 |
| | 390 | 12.5 \times 25 | 0.10 | 585 | 0.053 | 0.13 | 1440 | 1120 | UPJ1H391MHD |
| | 390 | 16 \times 15 | 0.10 | 585 | 0.072 | 0.18 | 1270 | 990 | UPJ1H391MHD6 |
| | 470 | 12.5 \times 25 | 0.10 | 705 | 0.048 | 0.12 | 1500 | 1190 | UPJ1H471MHD |
| | 470 | 18 \times 15 | 0.10 | 705 | 0.060 | 0.15 | 1470 | 1170 | UPJ1H471MHD6 |
| | 560 | 12.5 \times 30.5 | 0.10 | 840 | 0.040 | 0.10 | 1680 | 1360 | UPJ1H561MHD |
| | 560 | 16 \times 20 | 0.10 | 840 | 0.053 | 0.13 | 1550 | 1260 | UPJ1H561MHD6 |
| | 680 | 12.5 \times 35.5 | 0.10 | 1020 | 0.036 | 0.09 | 1850 | 1530 | UPJ1H681MHD |
| | 680 | 16 \times 20 | 0.10 | 1020 | 0.048 | 0.12 | 1630 | 1350 | UPJ1H681MHD6 |
| | 820 | 12.5 \times 40 | 0.10 | 1230 | 0.033 | 0.083 | 2010 | 1700 | UPJ1H821MHD |
| | 820 | 18 \times 20 | 0.10 | 1230 | 0.043 | 0.11 | 1810 | 1530 | UPJ1H821MHD6 |
| | 1000 | 16 \times 30.5 | 0.10 | 1500 | 0.030 | 0.075 | 2120 | 1830 | UPJ1H102MHD |
| | 1000 | 18 \times 25 | 0.10 | 1500 | 0.036 | 0.090 | 2000 | 1730 | UPJ1H102MHD6 |
| | 1200 | 16 \times 35.5 | 0.10 | 1800 | 0.028 | 0.070 | 2260 | 1990 | UPJ1H122MHD |
| | 1200 | 18 \times 30.5 | 0.10 | 1800 | 0.031 | 0.078 | 2140 | 1880 | UPJ1H122MHD6 |
| | 1500 | 16 \times 40 | 0.10 | 2250 | 0.026 | 0.065 | 2410 | 2170 | UPJ1H152MHD |
| 1500 | 18 \times 30.5 | 0.10 | 2250 | 0.029 | 0.073 | 2220 | 1990 | UPJ1H152MHD6 | |
| 1800 | 18 \times 35.5 | 0.10 | 2700 | 0.025 | 0.063 | 2460 | 2210 | UPJ1H182MHD | |
| 2200 | 18 \times 40 | 0.12 | 3300 | 0.024 | 0.060 | 2560 | 2300 | UPJ1H222MHD | |

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ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μ F) | Case Size ϕ D×L(mm) | tan δ | Leakage Current (μ A) (at 20°C after 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|---------------------------------|-----------------------------|--------------|--|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 63 (1J) | 47 | 8×11.5 | 0.08 | 88.83 | 0.37 | 0.93 | 365 | 215 | UPJ1J470MPD |
| | 56 | 8×15 | 0.08 | 105.84 | 0.31 | 0.78 | 450 | 275 | UPJ1J560MPD |
| | 56 | 10×12.5 | 0.08 | 105.84 | 0.34 | 0.85 | 450 | 275 | UPJ1J560MPD6 |
| | 68 | 8×15 | 0.08 | 128.52 | 0.26 | 0.65 | 500 | 315 | UPJ1J680MPD |
| | 68 | 10×12.5 | 0.08 | 128.52 | 0.28 | 0.70 | 495 | 310 | UPJ1J680MPD6 |
| | 82 | 8×20 | 0.08 | 154.98 | 0.22 | 0.55 | 600 | 385 | UPJ1J820MPD |
| | 82 | 10×16 | 0.08 | 154.98 | 0.24 | 0.60 | 580 | 375 | UPJ1J820MPD6 |
| | 100 | 10×20 | 0.08 | 189 | 0.18 | 0.45 | 750 | 495 | UPJ1J101MPD |
| | 100 | 12.5×15 | 0.08 | 189 | 0.20 | 0.50 | 695 | 460 | UPJ1J101MHD6 |
| | 120 | 10×20 | 0.08 | 226.8 | 0.15 | 0.38 | 820 | 555 | UPJ1J121MPD |
| | 120 | 12.5×15 | 0.08 | 226.8 | 0.18 | 0.45 | 750 | 510 | UPJ1J121MHD6 |
| | 150 | 10×25 | 0.08 | 283.5 | 0.13 | 0.33 | 950 | 665 | UPJ1J151MPD |
| | 150 | 12.5×15 | 0.08 | 283.5 | 0.14 | 0.35 | 845 | 590 | UPJ1J151MHD6 |
| | 180 | 10×30.5 | 0.08 | 340.2 | 0.11 | 0.28 | 1110 | 790 | UPJ1J181MPD |
| | 180 | 16×15 | 0.08 | 340.2 | 0.12 | 0.30 | 1050 | 750 | UPJ1J181MHD6 |
| | 220 | 12.5×20 | 0.08 | 415.8 | 0.094 | 0.24 | 1140 | 835 | UPJ1J221MHD |
| | 220 | 16×15 | 0.08 | 415.8 | 0.10 | 0.25 | 1120 | 820 | UPJ1J221MHD6 |
| | 270 | 12.5×25 | 0.08 | 510.3 | 0.081 | 0.20 | 1340 | 1000 | UPJ1J271MHD |
| | 270 | 18×15 | 0.08 | 510.3 | 0.088 | 0.22 | 1290 | 965 | UPJ1J271MHD6 |
| | 330 | 12.5×25 | 0.08 | 623.7 | 0.072 | 0.18 | 1420 | 1090 | UPJ1J331MHD |
| | 330 | 18×15 | 0.08 | 623.7 | 0.078 | 0.20 | 1410 | 1080 | UPJ1J331MHD6 |
| | 390 | 12.5×30.5 | 0.08 | 737.1 | 0.059 | 0.15 | 1620 | 1260 | UPJ1J391MHD |
| | 390 | 16×20 | 0.08 | 737.1 | 0.070 | 0.18 | 1500 | 1170 | UPJ1J391MHD6 |
| | 470 | 12.5×35.5 | 0.08 | 888.3 | 0.052 | 0.13 | 1780 | 1420 | UPJ1J471MHD |
| | 470 | 16×25 | 0.08 | 888.3 | 0.063 | 0.16 | 1700 | 1350 | UPJ1J471MHD6 |
| | 560 | 12.5×40 | 0.08 | 1058.4 | 0.047 | 0.12 | 1950 | 1580 | UPJ1J561MHD |
| | 560 | 18×20 | 0.08 | 1058.4 | 0.058 | 0.15 | 1730 | 1400 | UPJ1J561MHD6 |
| | 680 | 16×30.5 | 0.08 | 1285.2 | 0.043 | 0.11 | 2050 | 1700 | UPJ1J681MHD |
| | 680 | 18×25 | 0.08 | 1285.2 | 0.051 | 0.13 | 1940 | 1610 | UPJ1J681MHD6 |
| | 820 | 16×35.5 | 0.08 | 1549.8 | 0.040 | 0.10 | 2220 | 1880 | UPJ1J821MHD |
| 820 | 18×30.5 | 0.08 | 1549.8 | 0.043 | 0.12 | 2110 | 1780 | UPJ1J821MHD6 | |
| 1000 | 16×40 | 0.08 | 1890 | 0.037 | 0.093 | 2370 | 2050 | UPJ1J102MHD | |
| 1000 | 18×35.5 | 0.08 | 1890 | 0.040 | 0.10 | 2280 | 1970 | UPJ1J102MHD6 | |
| 1200 | 18×40 | 0.08 | 2268 | 0.034 | 0.085 | 2510 | 2210 | UPJ1J122MHD | |

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ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

■ 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 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|---------------------------------|--------------------------------------|--------------|--|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 80 (1K) | 33 | 8 \times 11.5 | 0.08 | 79.2 | 0.53 | 1.40 | 234 | 132 | UPJ1K330MPD |
| | 39 | 8 \times 15 | 0.08 | 93.6 | 0.46 | 1.20 | 272 | 156 | UPJ1K390MPD |
| | 39 | 10 \times 12.5 | 0.08 | 93.6 | 0.49 | 1.30 | 271 | 155 | UPJ1K390MPD6 |
| | 47 | 8 \times 15 | 0.08 | 112.8 | 0.39 | 1.10 | 295 | 175 | UPJ1K470MPD |
| | 47 | 10 \times 12.5 | 0.08 | 112.8 | 0.42 | 1.10 | 293 | 174 | UPJ1K470MPD6 |
| | 56 | 8 \times 20 | 0.08 | 134.4 | 0.34 | 0.92 | 347 | 208 | UPJ1K560MPD |
| | 56 | 10 \times 16 | 0.08 | 134.4 | 0.36 | 0.97 | 337 | 202 | UPJ1K560MPD6 |
| | 68 | 10 \times 20 | 0.08 | 163.2 | 0.28 | 0.76 | 426 | 264 | UPJ1K680MPD |
| | 68 | 12.5 \times 15 | 0.08 | 163.2 | 0.31 | 0.84 | 402 | 249 | UPJ1K680MHD6 |
| | 82 | 10 \times 20 | 0.08 | 196.8 | 0.25 | 0.68 | 447 | 284 | UPJ1K820MPD |
| | 82 | 12.5 \times 15 | 0.08 | 196.8 | 0.27 | 0.73 | 430 | 273 | UPJ1K820MHD6 |
| | 100 | 10 \times 25 | 0.08 | 240 | 0.21 | 0.57 | 526 | 347 | UPJ1K101MPD |
| | 100 | 12.5 \times 15 | 0.08 | 240 | 0.23 | 0.62 | 466 | 308 | UPJ1K101MHD6 |
| | 120 | 10 \times 30.5 | 0.08 | 288 | 0.18 | 0.49 | 606 | 406 | UPJ1K121MPD |
| | 120 | 16 \times 15 | 0.08 | 288 | 0.20 | 0.54 | 663 | 444 | UPJ1K121MHD6 |
| | 150 | 10 \times 30.5 | 0.08 | 360 | 0.15 | 0.41 | 663 | 459 | UPJ1K151MPD |
| | 150 | 16 \times 15 | 0.08 | 360 | 0.18 | 0.47 | 699 | 484 | UPJ1K151MHD6 |
| | 180 | 12.5 \times 25 | 0.08 | 432 | 0.13 | 0.35 | 734 | 520 | UPJ1K181MHD |
| | 180 | 16 \times 15 | 0.08 | 432 | 0.15 | 0.41 | 766 | 543 | UPJ1K181MHD6 |
| | 220 | 12.5 \times 30.5 | 0.08 | 528 | 0.12 | 0.32 | 816 | 595 | UPJ1K221MHD |
| | 220 | 18 \times 15 | 0.08 | 528 | 0.13 | 0.35 | 881 | 643 | UPJ1K221MHD6 |
| | 270 | 12.5 \times 30.5 | 0.08 | 648 | 0.10 | 0.27 | 894 | 667 | UPJ1K271MHD |
| | 270 | 16 \times 20 | 0.08 | 648 | 0.11 | 0.30 | 995 | 742 | UPJ1K271MHD6 |
| | 330 | 12.5 \times 35.5 | 0.08 | 792 | 0.088 | 0.24 | 1000 | 767 | UPJ1K331MHD |
| | 330 | 16 \times 25 | 0.08 | 792 | 0.099 | 0.27 | 1140 | 874 | UPJ1K331MHD6 |
| | 390 | 12.5 \times 40 | 0.08 | 936 | 0.078 | 0.21 | 1060 | 822 | UPJ1K391MHD |
| | 390 | 18 \times 20 | 0.08 | 936 | 0.089 | 0.24 | 1170 | 908 | UPJ1K391MHD6 |
| | 470 | 16 \times 30.5 | 0.08 | 1128 | 0.069 | 0.19 | 1450 | 1150 | UPJ1K471MHD |
| | 470 | 18 \times 25 | 0.08 | 1128 | 0.080 | 0.22 | 1330 | 1060 | UPJ1K471MHD6 |
| | 560 | 16 \times 35.5 | 0.08 | 1344 | 0.062 | 0.17 | 1600 | 1300 | UPJ1K561MHD |
| 560 | 18 \times 30.5 | 0.08 | 1344 | 0.072 | 0.19 | 1490 | 1210 | UPJ1K561MHD6 | |
| 680 | 16 \times 40 | 0.08 | 1632 | 0.055 | 0.15 | 1770 | 1470 | UPJ1K681MHD | |
| 680 | 18 \times 30.5 | 0.08 | 1632 | 0.065 | 0.18 | 1560 | 1300 | UPJ1K681MHD6 | |
| 820 | 18 \times 35.5 | 0.08 | 1968 | 0.049 | 0.13 | 1890 | 1590 | UPJ1K821MHD | |
| 1000 | 18 \times 40 | 0.08 | 2400 | 0.044 | 0.12 | 2080 | 1790 | UPJ1K102MHD | |

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ALUMINUM ELECTROLYTIC CAPACITORS

UPJ

■ 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 1 minute) | Impedance (Ω) max. | | Rated Ripple (mArms) | | Part Number |
|--------------------------------|------------------------------------|--------------------------------------|--------------|--|--------------------------------|------------------|---------------------------|-----------------|--------------|
| | | | | | 20°C/ 100kHz | -10°C/ 100kHz | 105°C/ 10 to 200kHz | 105°C/ 120Hz | |
| 100 (2A) | 22 | 8 \times 11.5 | 0.08 | 66 | 0.55 | 1.50 | 230 | 122 | UPJ2A220MPD |
| | 27 | 8 \times 15 | 0.08 | 81 | 0.47 | 1.30 | 269 | 146 | UPJ2A270MPD |
| | 27 | 10 \times 12.5 | 0.08 | 81 | 0.50 | 1.40 | 268 | 145 | UPJ2A270MPD6 |
| | 33 | 8 \times 15 | 0.08 | 99 | 0.38 | 1.00 | 299 | 169 | UPJ2A330MPD |
| | 33 | 10 \times 12.5 | 0.08 | 99 | 0.42 | 1.10 | 293 | 166 | UPJ2A330MPD6 |
| | 39 | 8 \times 20 | 0.08 | 117 | 0.33 | 0.89 | 352 | 202 | UPJ2A390MPD |
| | 39 | 10 \times 16 | 0.08 | 117 | 0.36 | 0.97 | 337 | 193 | UPJ2A390MPD6 |
| | 47 | 10 \times 20 | 0.08 | 141 | 0.28 | 0.76 | 423 | 252 | UPJ2A470MPD |
| | 47 | 12.5 \times 15 | 0.08 | 141 | 0.31 | 0.84 | 402 | 239 | UPJ2A470MHD6 |
| | 56 | 10 \times 20 | 0.08 | 168 | 0.24 | 0.65 | 456 | 274 | UPJ2A560MPD |
| | 56 | 12.5 \times 15 | 0.08 | 168 | 0.27 | 0.73 | 430 | 258 | UPJ2A560MHD6 |
| | 68 | 10 \times 25 | 0.08 | 204 | 0.21 | 0.57 | 526 | 326 | UPJ2A680MPD |
| | 68 | 12.5 \times 15 | 0.08 | 204 | 0.23 | 0.62 | 466 | 289 | UPJ2A680MHD6 |
| | 82 | 10 \times 30.5 | 0.08 | 246 | 0.18 | 0.49 | 606 | 386 | UPJ2A820MPD |
| | 82 | 16 \times 15 | 0.08 | 246 | 0.19 | 0.51 | 681 | 433 | UPJ2A820MHD6 |
| | 100 | 10 \times 30.5 | 0.08 | 300 | 0.15 | 0.41 | 663 | 438 | UPJ2A101MPD |
| | 100 | 16 \times 15 | 0.08 | 300 | 0.17 | 0.46 | 719 | 475 | UPJ2A101MHD6 |
| | 120 | 12.5 \times 25 | 0.08 | 360 | 0.13 | 0.35 | 774 | 519 | UPJ2A121MHD |
| | 120 | 16 \times 15 | 0.08 | 360 | 0.14 | 0.38 | 793 | 531 | UPJ2A121MHD6 |
| | 150 | 12.5 \times 25 | 0.08 | 450 | 0.11 | 0.30 | 798 | 553 | UPJ2A151MHD |
| | 150 | 18 \times 15 | 0.08 | 450 | 0.12 | 0.32 | 917 | 635 | UPJ2A151MHD6 |
| | 180 | 12.5 \times 30.5 | 0.08 | 540 | 0.098 | 0.26 | 904 | 641 | UPJ2A181MHD |
| | 180 | 16 \times 20 | 0.08 | 540 | 0.11 | 0.30 | 995 | 706 | UPJ2A181MHD6 |
| | 220 | 12.5 \times 35.5 | 0.08 | 660 | 0.087 | 0.23 | 1000 | 730 | UPJ2A221MHD |
| | 220 | 16 \times 25 | 0.08 | 660 | 0.093 | 0.25 | 1170 | 854 | UPJ2A221MHD6 |
| | 270 | 12.5 \times 40 | 0.08 | 810 | 0.072 | 0.19 | 1130 | 843 | UPJ2A271MHD |
| | 270 | 18 \times 20 | 0.08 | 810 | 0.080 | 0.22 | 1230 | 918 | UPJ2A271MHD6 |
| | 330 | 16 \times 30.5 | 0.08 | 990 | 0.062 | 0.17 | 1520 | 1160 | UPJ2A331MHD |
| | 330 | 18 \times 25 | 0.08 | 990 | 0.070 | 0.19 | 1420 | 1080 | UPJ2A331MHD6 |
| | 390 | 16 \times 35.5 | 0.08 | 1170 | 0.053 | 0.14 | 1730 | 1340 | UPJ2A391MHD |
| | 390 | 18 \times 30.5 | 0.08 | 1170 | 0.062 | 0.17 | 1600 | 1240 | UPJ2A391MHD6 |
| | 470 | 16 \times 40 | 0.08 | 1410 | 0.047 | 0.13 | 1920 | 1530 | UPJ2A471MHD |
| 470 | 18 \times 35.5 | 0.08 | 1410 | 0.056 | 0.15 | 1770 | 1410 | UPJ2A471MHD6 | |
| 560 | 18 \times 35.5 | 0.08 | 1680 | 0.041 | 0.11 | 2070 | 1680 | UPJ2A561MHD | |
| 680 | 18 \times 40 | 0.08 | 2040 | 0.036 | 0.097 | 2300 | 1910 | UPJ2A681MHD | |

For cut leads, formed leads or taped parts, please add the appropriate code after the size code (12th digit).
If there is no size code in the part number, please add size code "1" and then add the appropriate code.

- For formed lead or taped product specifications and minimum order quantity, please refer to the Guidelines for Aluminum Electrolytic Capacitors.

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