



**THE DATASHEET OF  
UBT1H331MHD1TO**





UBT

## ■ Dimensions

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 1 minute) | Impedance (Ω) max. (20°C/100kHz) | Rated Ripple (mA rms) (125°C/100kHz) | Part Number  |
|--------------------------|------------------------|---------------------|-------|---|----------------------------------|--------------------------------------|--------------|
| 10 (1A)                  | 220                    | 8×11.5              | 0.20  | 66  | 0.26                             | 340                                  | UBT1A221MPD8 |
|                          | 330                    | 10×12.5             | 0.20  | 99  | 0.15                             | 620                                  | UBT1A331MPD8 |
|                          | 470                    | 10×12.5             | 0.20  | 141   | 0.10                             | 680                                  | UBT1A471MPD8 |
|                          | 1000                   | 10×20               | 0.20  | 300   | 0.057                            | 1100                                 | UBT1A102MPD8 |
|                          | 2200                   | 12.5×25             | 0.22  | 660   | 0.033                            | 1750                                 | UBT1A222MHD8 |
|                          | 3300                   | 16×25               | 0.24  | 990   | 0.024                            | 2300                                 | UBT1A332MHD8 |
|                          | 4700                   | 16×30.5             | 0.26  | 1410  | 0.020                            | 2710                                 | UBT1A472MHD8 |
| 16 (1C)                  | 100                    | 8×11.5              | 0.16  | 48  | 0.32                             | 340                                  | UBT1C101MPD8 |
|                          | 220                    | 10×12.5             | 0.16  | 105.6   | 0.15                             | 620                                  | UBT1C221MPD8 |
|                          | 330                    | 10×12.5             | 0.16  | 158.4   | 0.10                             | 680                                  | UBT1C331MPD8 |
|                          | 470                    | 10×16               | 0.16  | 225.6   | 0.075                            | 945                                  | UBT1C471MPD8 |
|                          | 1000                   | 12.5×20             | 0.16  | 480   | 0.042                            | 1490                                 | UBT1C102MHD8 |
|                          | 2200                   | 16×25               | 0.18  | 1056  | 0.024                            | 2300                                 | UBT1C222MHD8 |
|                          | 3300                   | 16×30.5             | 0.20  | 1584  | 0.020                            | 2710                                 | UBT1C332MHD8 |
| 25 (1E)                  | 100                    | 8×11.5              | 0.14  | 75  | 0.13                             | 500                                  | UBT1E101MPD8 |
|                          | 220                    | 10×12.5             | 0.14  | 165   | 0.10                             | 680                                  | UBT1E221MPD8 |
|                          | 330                    | 10×16               | 0.14  | 247.5   | 0.075                            | 945                                  | UBT1E331MPD8 |
|                          | 470                    | 10×20               | 0.14  | 352.5   | 0.057                            | 1100                                 | UBT1E471MPD8 |
|                          | 1000                   | 12.5×25             | 0.14  | 750   | 0.033                            | 1750                                 | UBT1E102MHD8 |
|                          | 2200                   | 16×30.5             | 0.16  | 1650  | 0.020                            | 2710                                 | UBT1E222MHD8 |
|                          | 3300                   | 18×30.5             | 0.18  | 2475  | 0.017                            | 3310                                 | UBT1E332MHD8 |
| 35 (1V)                  | 100                    | 10×12.5             | 0.12  | 105   | 0.15                             | 620                                  | UBT1V101MPD8 |
|                          | 220                    | 10×16               | 0.12  | 231   | 0.094                            | 790                                  | UBT1V221MPD8 |
|                          | 330                    | 10×20               | 0.12  | 346.5   | 0.075                            | 950                                  | UBT1V331MPD8 |
|                          | 470                    | 12.5×20             | 0.12  | 493.5   | 0.058                            | 1330                                 | UBT1V471MHD8 |
|                          | 1000                   | 16×25               | 0.12  | 1050  | 0.031                            | 2010                                 | UBT1V102MHD8 |
|                          | 2200                   | 18×35.5             | 0.14  | 2310  | 0.025                            | 2790                                 | UBT1V222MHD8 |
| 50 (1H)                  | 4.7                    | 8×11.5              | 0.10  | 7.05  | 1.15                             | 85                                   | UBT1H47RMPD8 |
|                          | 10                     | 8×11.5              | 0.10  | 15  | 0.75                             | 180                                  | UBT1H100MPD8 |
|                          | 22                     | 8×11.5              | 0.10  | 33  | 0.50                             | 250                                  | UBT1H220MPD8 |
|                          | 33                     | 8×11.5              | 0.10  | 49.5  | 0.45                             | 300                                  | UBT1H330MPD8 |
|                          | 47                     | 8×11.5              | 0.10  | 70.5  | 0.35                             | 440                                  | UBT1H470MPD8 |
|                          | 100                    | 10×12.5             | 0.10  | 150   | 0.18                             | 555                                  | UBT1H101MPD8 |
|                          | 220                    | 10×20               | 0.10  | 330   | 0.098                            | 930                                  | UBT1H221MPD8 |
|                          | 330                    | 12.5×20             | 0.10  | 495   | 0.070                            | 1330                                 | UBT1H331MHD8 |
|                          | 470                    | 12.5×25             | 0.10  | 705   | 0.055                            | 1650                                 | UBT1H471MHD8 |
|                          | 1000                   | 16×30.5             | 0.10  | 1500  | 0.031                            | 2430                                 | UBT1H102MHD8 |
| 63 (1J)                  | 22                     | 8×11.5              | 0.10  | 41.58   | 2.00                             | 130                                  | UBT1J220MPD8 |
|                          | 33                     | 8×11.5              | 0.10  | 62.37   | 1.50                             | 150                                  | UBT1J330MPD8 |
|                          | 47                     | 10×12.5             | 0.10  | 88.83   | 0.59                             | 530                                  | UBT1J470MPD8 |
|                          | 100                    | 10×16               | 0.10  | 189   | 0.41                             | 690                                  | UBT1J101MPD8 |
|                          | 220                    | 12.5×20             | 0.10  | 415.8   | 0.16                             | 1050                                 | UBT1J221MHD8 |
|                          | 330                    | 12.5×25             | 0.10  | 623.7   | 0.12                             | 1290                                 | UBT1J331MHD8 |
|                          | 470                    | 12.5×30.5           | 0.10  | 888.3   | 0.097                            | 1460                                 | UBT1J471MHD8 |

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| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 1 minute) | Impedance (Ω) max. (20°C/100kHz) | Rated Ripple (mArms) (125°C/100kHz) | Part Number  |
|--------------------------|------------------------|---------------------|-------|---|----------------------------------|-------------------------------------|--------------|
| 80 (1K)                  | 22                     | 8×11.5              | 0.08  | 52.8  | 1.50                             | 150                                 | UBT1K220MPD8 |
|                          | 33                     | 10×12.5             | 0.08  | 79.2  | 0.80                             | 480                                 | UBT1K330MPD8 |
|                          | 47                     | 10×12.5             | 0.08  | 112.8   | 0.80                             | 480                                 | UBT1K470MPD8 |
|                          | 100                    | 10×20               | 0.08  | 240   | 0.39                             | 790                                 | UBT1K101MPD8 |
|                          | 220                    | 12.5×25             | 0.08  | 528   | 0.18                             | 1240                                | UBT1K221MHD8 |
|                          | 330                    | 12.5×30.5           | 0.08  | 792   | 0.16                             | 1390                                | UBT1K331MHD8 |
| 100 (2A)                 | 470                    | 16×25               | 0.08  | 1128  | 0.11                             | 1500                                | UBT1K471MHD8 |
|                          | 10                     | 8×11.5              | 0.08  | 30  | 1.50                             | 150                                 | UBT2A100MPD8 |
|                          | 22                     | 10×12.5             | 0.08  | 66  | 0.80                             | 480                                 | UBT2A220MPD8 |
|                          | 33                     | 10×12.5             | 0.08  | 99  | 0.80                             | 480                                 | UBT2A330MPD8 |
|                          | 47                     | 10×16               | 0.08  | 141   | 0.55                             | 630                                 | UBT2A470MPD8 |
|                          | 100                    | 12.5×20             | 0.08  | 300   | 0.25                             | 990                                 | UBT2A101MHD8 |
|                          | 220                    | 16×25               | 0.08  | 660   | 0.11                             | 1500                                | UBT2A221MHD8 |
| 330                      | 16×30.5                | 0.08                | 990   | 0.079   | 1790                             | UBT2A331MHD8                        |              |

| Rated Voltage (V) (code) | Rated Capacitance (μF) | Case Size φD×L (mm) | tan δ | Leakage Current (μA) (at 20°C after 1 minute) | Rated Ripple (mArms) (125°C/120Hz) | Part Number  |
|--------------------------|------------------------|---------------------|-------|---|------------------------------------|--------------|
| 160 (2C)                 | 22                     | 10×20               | 0.20  | 240.8   | 115                                | UBT2C220MPD8 |
|                          | 33                     | 10×25               | 0.20  | 311.2   | 154                                | UBT2C330MPD8 |
|                          | 47                     | 12.5×20             | 0.20  | 400.8   | 187                                | UBT2C470MHD8 |
|                          | 68                     | 12.5×25             | 0.20  | 535.2   | 245                                | UBT2C680MHD8 |
|                          | 100                    | 16×25               | 0.20  | 740   | 329                                | UBT2C101MHD8 |
|                          | 150                    | 16×30.5             | 0.20  | 1060  | 434                                | UBT2C151MHD8 |
| 200 (2D)                 | 10                     | 10×20               | 0.20  | 180   | 78                                 | UBT2D100MPD8 |
|                          | 22                     | 10×25               | 0.20  | 276   | 126                                | UBT2D220MPD8 |
|                          | 33                     | 12.5×20             | 0.20  | 364   | 157                                | UBT2D330MHD8 |
|                          | 47                     | 12.5×25             | 0.20  | 476   | 204                                | UBT2D470MHD8 |
|                          | 68                     | 16×20               | 0.20  | 644   | 250                                | UBT2D680MHD8 |
| 250 (2E)                 | 100                    | 16×25               | 0.20  | 900   | 329                                | UBT2D101MHD8 |
|                          | 10                     | 10×20               | 0.20  | 200   | 78                                 | UBT2E100MPD8 |
|                          | 22                     | 12.5×20             | 0.20  | 320   | 128                                | UBT2E220MHD8 |
|                          | 33                     | 12.5×25             | 0.20  | 430   | 171                                | UBT2E330MHD8 |
| 350 (2V)                 | 47                     | 16×25               | 0.20  | 570   | 225                                | UBT2E470MHD8 |
|                          | 68                     | 16×30.5             | 0.20  | 780   | 292                                | UBT2E680MHD8 |
|                          | 4.7                    | 10×20               | 0.24  | 165.8   | 53                                 | UBT2V4R7MPD8 |
|                          | 10                     | 10×25               | 0.24  | 240   | 85                                 | UBT2V100MPD8 |
| 400 (2G)                 | 22                     | 12.5×25             | 0.24  | 408   | 139                                | UBT2V220MHD8 |
|                          | 33                     | 16×25               | 0.24  | 562   | 189                                | UBT2V330MHD8 |
|                          | 47                     | 16×30.5             | 0.24  | 758   | 243                                | UBT2V470MHD8 |
|                          | 4.7                    | 10×20               | 0.24  | 175.2   | 53                                 | UBT2G4R7MPD8 |
|                          | 10                     | 10×25               | 0.24  | 260   | 86                                 | UBT2G100MPD8 |
| 450 (2W)                 | 22                     | 12.5×30.5           | 0.24  | 452   | 142                                | UBT2G220MHD8 |
|                          | 33                     | 16×25               | 0.24  | 628   | 189                                | UBT2G330MHD8 |
|                          | 47                     | 16×30.5             | 0.24  | 852   | 243                                | UBT2G470MHD8 |
|                          | 4.7                    | 10×25               | 0.24  | 184.6   | 58                                 | UBT2W4R7MPD8 |
| 450 (2W)                 | 10                     | 12.5×20             | 0.24  | 280   | 86                                 | UBT2W100MHD8 |
|                          | 22                     | 16×25               | 0.24  | 496   | 154                                | UBT2W220MHD8 |
|                          | 33                     | 16×30.5             | 0.24  | 694   | 203                                | UBT2W330MHD8 |

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

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