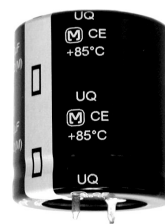


- **Highly miniaturized version (30% smaller than UP series)**
- **2 and 3 pin versions available**
- **PET Sleeve Option**



\*Use of temperature ripple current multipliers may limit life to the hours specified for the maximum operating temperature

|                        |          |          |                        |          |                         |  |                             |  |  |  |  |
|------------------------|----------|----------|------------------------|----------|-------------------------|--|-----------------------------|--|--|--|--|
| <b>E</b>               | <b>E</b> | <b>T</b> | <b>U</b>               | <b>Q</b> |                         |  |                             |  |  |  |  |
| <b>Common<br/>Code</b> |          |          | <b>Series<br/>Code</b> |          | <b>Voltage<br/>Code</b> |  | <b>Capacitance<br/>Code</b> |  |  |  |  |

|                                            |          |          |          |
|--------------------------------------------|----------|----------|----------|
| Sleeving Options: See Part Number listings |          |          |          |
| <b>Diameter / Terminal Code</b>            |          |          |          |
| # of pins:                                 | 2        | 2        | 3        |
| pin length:                                | 6.3mm    | 4.0mm    | 4.0mm    |
| 22mm                                       | <b>B</b> | <b>H</b> | <b>P</b> |
| 25mm                                       | <b>C</b> | <b>J</b> | <b>Q</b> |
| 30mm                                       | <b>D</b> | <b>K</b> | <b>R</b> |
| 35mm                                       | <b>E</b> | <b>L</b> | <b>S</b> |
| (Please see page 10 for details)           |          |          |          |

### Part Number Suffix Sleeving Options

| Cap.<br>( $\mu$ F)           | Size (mm)<br>D x L | Max 85°C R.C. ( $A_{rms}$ ) |        | 20°C ESR ( $\Omega$ , max.) |       | Panasonic<br>Part Number | PVC with Top<br>Plate | PVC without<br>Top Plate | PET without<br>Top Plate |
|------------------------------|--------------------|-----------------------------|--------|-----------------------------|-------|--------------------------|-----------------------|--------------------------|--------------------------|
|                              |                    | 120Hz                       | 10kHz~ | 120Hz                       | 20kHz |                          |                       |                          |                          |
| 16 VDC Working, 20 VDC Surge |                    |                             |        |                             |       |                          |                       |                          |                          |
| 12000                        | 22 x 25            | 4.52                        | 5.20   | 0.069                       | 0.059 | EETUQ1C123B_             | A                     | (No suffix)              | J                        |
| 15000                        | 22 x 30            | 5.26                        | 6.05   | 0.055                       | 0.047 | EETUQ1C153B_             | A                     | (No suffix)              | J                        |
| 18000                        | 22 x 35            | 5.57                        | 6.41   | 0.046                       | 0.039 | EETUQ1C183B_             | A                     | (No suffix)              | J                        |
|                              | 25 x 25            | 5.57                        | 6.41   | 0.046                       | 0.039 | EETUQ1C183C_             | A                     | (No suffix)              | J                        |
| 22000                        | 22 x 40            | 6.10                        | 7.02   | 0.038                       | 0.032 | EETUQ1C223B_             | A                     | (No suffix)              | J                        |
|                              | 25 x 30            | 6.10                        | 7.02   | 0.038                       | 0.032 | EETUQ1C223C_             | A                     | (No suffix)              | J                        |
| 27000                        | 22 x 45            | 6.31                        | 7.26   | 0.031                       | 0.026 | EETUQ1C273B_             | A                     | (No suffix)              | J                        |
|                              | 25 x 35            | 6.31                        | 7.26   | 0.031                       | 0.026 | EETUQ1C273C_             | A                     | (No suffix)              | J                        |
|                              | 30 x 25            | 6.31                        | 7.26   | 0.031                       | 0.026 | EETUQ1C273D_             | A                     | (No suffix)              | J                        |
| 33000                        | 22 x 50            | 6.84                        | 7.87   | 0.025                       | 0.021 | EETUQ1C333B_             | A                     | (No suffix)              | J                        |
|                              | 25 x 40            | 6.84                        | 7.87   | 0.025                       | 0.021 | EETUQ1C333C_             | A                     | (No suffix)              | J                        |
|                              | 30 x 30            | 6.84                        | 7.87   | 0.025                       | 0.021 | EETUQ1C333D_             | A                     | (No suffix)              | J                        |
|                              | 35 x 25            | 6.84                        | 7.87   | 0.025                       | 0.021 | EETUQ1C333E_             | A                     | (No suffix)              | J                        |
| 39000                        | 25 x 45            | 6.94                        | 7.98   | 0.024                       | 0.020 | EETUQ1C393C_             | A                     | (No suffix)              | J                        |
|                              | 30 x 35            | 6.94                        | 7.98   | 0.024                       | 0.020 | EETUQ1C393D_             | A                     | (No suffix)              | J                        |
| 47000                        | 25 x 50            | 7.47                        | 8.59   | 0.023                       | 0.019 | EETUQ1C473C_             | A                     | (No suffix)              | J                        |
|                              | 30 x 40            | 7.47                        | 8.59   | 0.023                       | 0.019 | EETUQ1C473D_             | A                     | (No suffix)              | J                        |
|                              | 35 x 30            | 7.47                        | 8.59   | 0.023                       | 0.019 | EETUQ1C473E_             | A                     | (No suffix)              | J                        |
| 56000                        | 30 x 45            | 8.73                        | 10.04  | 0.022                       | 0.019 | EETUQ1C563D_             | A                     | (No suffix)              | J                        |
|                              | 35 x 35            | 8.73                        | 10.04  | 0.022                       | 0.018 | EETUQ1C563E_             | A                     | (No suffix)              | J                        |
| 68000                        | 30 x 50            | 9.05                        | 10.41  | 0.021                       | 0.018 | EETUQ1C683D_             | A                     | (No suffix)              | J                        |
|                              | 35 x 40            | 9.05                        | 10.41  | 0.021                       | 0.018 | EETUQ1C683E_             | A                     | (No suffix)              | J                        |
| 82000                        | 35 x 45            | 9.49                        | 10.91  | 0.020                       | 0.018 | EETUQ1C823E_             | A                     | (No suffix)              | J                        |
| 100000                       | 35 x 50            | 10.18                       | 11.71  | 0.019                       | 0.018 | EETUQ1C104E_             | A                     | (No suffix)              | J                        |

TS-UQ Standard Ratings (continued)

| TS-UQ Standard Ratings (continued) |                    |                                   |        |                    |       |                          | Part Number Suffix Slewing Options |                          |                          |
|------------------------------------|--------------------|-----------------------------------|--------|--------------------|-------|--------------------------|------------------------------------|--------------------------|--------------------------|
| Cap.<br>(μF)                       | Size (mm)<br>D x L | Max 85°C R.C. (A <sub>rms</sub> ) |        | 20°C ESR (Ω, max.) |       | Panasonic<br>Part Number | PVC with Top<br>Plate              | PVC without<br>Top Plate | PET without<br>Top Plate |
|                                    |                    | 120Hz                             | 10kHz~ | 120Hz              | 20kHz |                          |                                    |                          |                          |
| 25 VDC Working, 32 VDC Surge       |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 8200                               | 22 x 25            | 3.57                              | 4.11   | 0.081              | 0.065 | EETUQ1E822B_             | A                                  | (No suffix)              | J                        |
| 12000                              | 22 x 30            | 4.10                              | 4.72   | 0.055              | 0.044 | EETUQ1E123B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 25            | 4.10                              | 4.72   | 0.055              | 0.044 | EETUQ1E123C_             | A                                  | (No suffix)              | J                        |
| 15000                              | 22 x 35            | 4.63                              | 5.32   | 0.044              | 0.035 | EETUQ1E153B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 30            | 4.63                              | 5.32   | 0.044              | 0.035 | EETUQ1E153C_             | A                                  | (No suffix)              | J                        |
| 18000                              | 22 x 40            | 5.47                              | 6.29   | 0.037              | 0.029 | EETUQ1E183B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 35            | 5.47                              | 6.29   | 0.037              | 0.029 | EETUQ1E183C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 25            | 5.47                              | 6.29   | 0.037              | 0.029 | EETUQ1E183D_             | A                                  | (No suffix)              | J                        |
| 22000                              | 22 x 45            | 6.10                              | 7.02   | 0.030              | 0.024 | EETUQ1E223B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 40            | 6.10                              | 7.02   | 0.030              | 0.024 | EETUQ1E223C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 30            | 6.10                              | 7.02   | 0.030              | 0.024 | EETUQ1E223D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 25            | 6.10                              | 7.02   | 0.030              | 0.024 | EETUQ1E223E_             | A                                  | (No suffix)              | J                        |
| 27000                              | 25 x 45            | 6.21                              | 7.14   | 0.025              | 0.020 | EETUQ1E273C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 35            | 6.21                              | 7.14   | 0.025              | 0.020 | EETUQ1E273D_             | A                                  | (No suffix)              | J                        |
| 33000                              | 25 x 50            | 6.84                              | 7.87   | 0.020              | 0.016 | EETUQ1E333C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 40            | 6.84                              | 7.87   | 0.020              | 0.016 | EETUQ1E333D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 30            | 6.84                              | 7.87   | 0.020              | 0.016 | EETUQ1E333E_             | A                                  | (No suffix)              | J                        |
| 39000                              | 30 x 45            | 7.36                              | 8.46   | 0.020              | 0.016 | EETUQ1E393D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 35            | 7.36                              | 8.46   | 0.020              | 0.016 | EETUQ1E393E_             | A                                  | (No suffix)              | J                        |
| 47000                              | 30 x 50            | 8.00                              | 9.20   | 0.019              | 0.016 | EETUQ1E473D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 40            | 8.00                              | 9.20   | 0.019              | 0.015 | EETUQ1E473E_             | A                                  | (No suffix)              | J                        |
| 56000                              | 35 x 45            | 8.91                              | 10.25  | 0.019              | 0.016 | EETUQ1E563E_             | A                                  | (No suffix)              | J                        |
| 68000                              | 35 x 50            | 9.79                              | 11.26  | 0.018              | 0.016 | EETUQ1E683E_             | A                                  | (No suffix)              | J                        |
| 35 VDC Working, 44 VDC Surge       |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 5600                               | 22 x 25            | 3.36                              | 3.86   | 0.104              | 0.078 | EETUQ1V562B_             | A                                  | (No suffix)              | J                        |
| 8200                               | 22 x 30            | 4.00                              | 4.60   | 0.071              | 0.053 | EETUQ1V822B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 25            | 4.00                              | 4.60   | 0.071              | 0.053 | EETUQ1V822C_             | A                                  | (No suffix)              | J                        |
| 10000                              | 22 x 35            | 4.42                              | 5.08   | 0.058              | 0.044 | EETUQ1V103B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 30            | 4.42                              | 5.08   | 0.058              | 0.044 | EETUQ1V103C_             | A                                  | (No suffix)              | J                        |
| 12000                              | 22 x 40            | 5.05                              | 5.81   | 0.048              | 0.036 | EETUQ1V123B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 35            | 5.05                              | 5.81   | 0.048              | 0.036 | EETUQ1V123C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 25            | 5.05                              | 5.81   | 0.048              | 0.036 | EETUQ1V123D_             | A                                  | (No suffix)              | J                        |
| 15000                              | 22 x 45            | 5.57                              | 6.41   | 0.039              | 0.029 | EETUQ1V153B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 40            | 5.57                              | 6.41   | 0.039              | 0.029 | EETUQ1V153C_             | A                                  | (No suffix)              | J                        |
| 18000                              | 25 x 45            | 5.68                              | 6.53   | 0.032              | 0.024 | EETUQ1V183C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 30            | 5.68                              | 6.53   | 0.032              | 0.024 | EETUQ1V183D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 25            | 5.68                              | 6.53   | 0.032              | 0.024 | EETUQ1V183E_             | A                                  | (No suffix)              | J                        |
| 22000                              | 25 x 50            | 6.10                              | 7.02   | 0.026              | 0.020 | EETUQ1V223C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 35            | 6.10                              | 7.02   | 0.026              | 0.020 | EETUQ1V223D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 30            | 6.10                              | 7.02   | 0.026              | 0.020 | EETUQ1V223E_             | A                                  | (No suffix)              | J                        |
| 27000                              | 30 x 45            | 6.84                              | 7.87   | 0.021              | 0.016 | EETUQ1V273D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 35            | 6.84                              | 7.87   | 0.021              | 0.016 | EETUQ1V273E_             | A                                  | (No suffix)              | J                        |
| 33000                              | 30 x 50            | 7.15                              | 8.22   | 0.018              | 0.013 | EETUQ1V333D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 40            | 7.15                              | 8.22   | 0.018              | 0.014 | EETUQ1V333E_             | A                                  | (No suffix)              | J                        |
| 39000                              | 35 x 45            | 7.91                              | 9.10   | 0.017              | 0.014 | EETUQ1V393E_             | A                                  | (No suffix)              | J                        |
| 47000                              | 35 x 50            | 8.56                              | 9.84   | 0.017              | 0.014 | EETUQ1V473E_             | A                                  | (No suffix)              | J                        |
| 50 VDC Working, 63 VDC Surge       |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 3300                               | 22 x 25            | 2.73                              | 3.14   | 0.151              | 0.113 | EETUQ1H332B_             | A                                  | (No suffix)              | J                        |
| 4700                               | 22 x 30            | 3.03                              | 3.48   | 0.106              | 0.079 | EETUQ1H472B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 25            | 3.03                              | 3.48   | 0.106              | 0.079 | EETUQ1H472C_             | A                                  | (No suffix)              | J                        |
| 5600                               | 22 x 35            | 3.42                              | 3.93   | 0.089              | 0.067 | EETUQ1H562B_             | A                                  | (No suffix)              | J                        |
| 6800                               | 22 x 40            | 3.85                              | 4.43   | 0.073              | 0.055 | EETUQ1H682B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 30            | 3.85                              | 4.43   | 0.073              | 0.055 | EETUQ1H682C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 25            | 3.85                              | 4.43   | 0.073              | 0.055 | EETUQ1H682D_             | A                                  | (No suffix)              | J                        |
| 8200                               | 22 x 45            | 4.41                              | 5.07   | 0.061              | 0.045 | EETUQ1H822B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 35            | 4.41                              | 5.07   | 0.061              | 0.045 | EETUQ1H822C_             | A                                  | (No suffix)              | J                        |
| 10000                              | 22 x 50            | 4.97                              | 5.72   | 0.050              | 0.037 | EETUQ1H103B_             | A                                  | (No suffix)              | J                        |
|                                    | 25 x 40            | 4.97                              | 5.72   | 0.050              | 0.037 | EETUQ1H103C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 30            | 4.97                              | 5.72   | 0.050              | 0.037 | EETUQ1H103D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 25            | 4.97                              | 5.72   | 0.050              | 0.037 | EETUQ1H103E_             | A                                  | (No suffix)              | J                        |
| 12000                              | 25 x 45            | 5.58                              | 6.42   | 0.041              | 0.031 | EETUQ1H123C_             | A                                  | (No suffix)              | J                        |
|                                    | 30 x 35            | 5.58                              | 6.42   | 0.041              | 0.031 | EETUQ1H123D_             | A                                  | (No suffix)              | J                        |
|                                    | 35 x 30            | 5.58                              | 6.42   | 0.041              | 0.031 | EETUQ1H123E_             | A                                  | (No suffix)              | J                        |

## TS-UQ Standard Ratings (continued)

| TS-UQ Standard Ratings (continued)       |                    |                                   |        |                    |       |                          | Part Number Suffix Slewing Options |                          |                          |
|------------------------------------------|--------------------|-----------------------------------|--------|--------------------|-------|--------------------------|------------------------------------|--------------------------|--------------------------|
| Cap.<br>(μF)                             | Size (mm)<br>D x L | Max 85°C R.C. (A <sub>rms</sub> ) |        | 20°C ESR (Ω, max.) |       | Panasonic<br>Part Number | PVC with Top<br>Plate              | PVC without<br>Top Plate | PET without<br>Top Plate |
|                                          |                    | 120Hz                             | 10kHz~ | 120Hz              | 20kHz |                          |                                    |                          |                          |
| 50 VDC Working, 63 VDC Surge (continued) |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 15000                                    | 30 x 40            | 6.44                              | 7.41   | 0.033              | 0.025 | EETUQ1H153D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 35            | 6.44                              | 7.41   | 0.033              | 0.025 | EETUQ1H153E_             | A                                  | (No suffix)              | J                        |
| 18000                                    | 30 x 45            | 6.94                              | 7.98   | 0.028              | 0.021 | EETUQ1H183D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 40            | 6.94                              | 7.98   | 0.028              | 0.021 | EETUQ1H183E_             | A                                  | (No suffix)              | J                        |
| 22000                                    | 35 x 45            | 7.57                              | 8.71   | 0.023              | 0.018 | EETUQ1H223E_             | A                                  | (No suffix)              | J                        |
| 27000                                    | 35 x 50            | 8.96                              | 10.30  | 0.018              | 0.015 | EETUQ1H273E_             | A                                  | (No suffix)              | J                        |
| 63 VDC Working, 79 VDC Surge             |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 2200                                     | 22 x 25            | 2.52                              | 2.90   | 0.188              | 0.141 | EETUQ1J222B_             | A                                  | (No suffix)              | J                        |
| 3300                                     | 22 x 30            | 4.10                              | 4.72   | 0.126              | 0.094 | EETUQ1J332B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 25            | 4.10                              | 4.72   | 0.126              | 0.094 | EETUQ1J332C_             | A                                  | (No suffix)              | J                        |
| 3900                                     | 22 x 35            | 4.44                              | 5.11   | 0.106              | 0.080 | EETUQ1J392B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 30            | 4.44                              | 5.11   | 0.106              | 0.080 | EETUQ1J392C_             | A                                  | (No suffix)              | J                        |
| 4700                                     | 22 x 40            | 4.86                              | 5.59   | 0.088              | 0.066 | EETUQ1J472B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 35            | 4.86                              | 5.59   | 0.088              | 0.066 | EETUQ1J472C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 25            | 4.86                              | 5.59   | 0.088              | 0.066 | EETUQ1J472D_             | A                                  | (No suffix)              | J                        |
| 5600                                     | 22 x 45            | 5.36                              | 6.16   | 0.074              | 0.056 | EETUQ1J562B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 40            | 5.36                              | 6.16   | 0.074              | 0.056 | EETUQ1J562C_             | A                                  | (No suffix)              | J                        |
| 6800                                     | 25 x 45            | 5.84                              | 6.72   | 0.061              | 0.046 | EETUQ1J682C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 30            | 5.84                              | 6.72   | 0.061              | 0.046 | EETUQ1J682D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 25            | 5.84                              | 6.72   | 0.061              | 0.046 | EETUQ1J682E_             | A                                  | (No suffix)              | J                        |
| 8200                                     | 25 x 50            | 6.00                              | 6.90   | 0.051              | 0.038 | EETUQ1J822C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 35            | 6.00                              | 6.90   | 0.051              | 0.038 | EETUQ1J822D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 30            | 6.00                              | 6.90   | 0.051              | 0.038 | EETUQ1J822E_             | A                                  | (No suffix)              | J                        |
| 10000                                    | 30 x 40            | 6.52                              | 7.50   | 0.041              | 0.031 | EETUQ1J103D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 35            | 6.52                              | 7.50   | 0.041              | 0.031 | EETUQ1J103E_             | A                                  | (No suffix)              | J                        |
| 12000                                    | 30 x 45            | 7.15                              | 8.22   | 0.035              | 0.026 | EETUQ1J123D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 40            | 7.15                              | 8.22   | 0.035              | 0.026 | EETUQ1J123E_             | A                                  | (No suffix)              | J                        |
| 15000                                    | 35 x 45            | 7.91                              | 9.10   | 0.028              | 0.021 | EETUQ1J153E_             | A                                  | (No suffix)              | J                        |
| 18000                                    | 35 x 50            | 8.55                              | 9.83   | 0.023              | 0.018 | EETUQ1J183E_             | A                                  | (No suffix)              | J                        |
| 80 VDC Working, 100 VDC Surge            |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 1500                                     | 22 x 25            | 2.26                              | 2.60   | 0.221              | 0.166 | EETUQ1K152B_             | A                                  | (No suffix)              | J                        |
| 1800                                     | 22 x 30            | 2.52                              | 2.90   | 0.184              | 0.138 | EETUQ1K182B_             | A                                  | (No suffix)              | J                        |
| 2200                                     | 22 x 35            | 2.73                              | 3.14   | 0.151              | 0.113 | EETUQ1K222B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 25            | 2.73                              | 3.14   | 0.151              | 0.113 | EETUQ1K222C_             | A                                  | (No suffix)              | J                        |
| 2700                                     | 22 x 40            | 2.78                              | 3.20   | 0.123              | 0.092 | EETUQ1K272B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 30            | 2.78                              | 3.20   | 0.123              | 0.092 | EETUQ1K272C_             | A                                  | (No suffix)              | J                        |
| 3300                                     | 22 x 45            | 3.21                              | 3.69   | 0.100              | 0.075 | EETUQ1K332B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 35            | 3.21                              | 3.69   | 0.100              | 0.075 | EETUQ1K332C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 25            | 3.21                              | 3.69   | 0.100              | 0.075 | EETUQ1K332D_             | A                                  | (No suffix)              | J                        |
| 3900                                     | 22 x 50            | 3.59                              | 4.13   | 0.085              | 0.064 | EETUQ1K392B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 40            | 3.59                              | 4.13   | 0.085              | 0.064 | EETUQ1K392C_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 25            | 3.59                              | 4.13   | 0.085              | 0.064 | EETUQ1K392E_             | A                                  | (No suffix)              | J                        |
| 4700                                     | 25 x 45            | 4.09                              | 4.70   | 0.071              | 0.053 | EETUQ1K472C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 30            | 4.09                              | 4.70   | 0.071              | 0.053 | EETUQ1K472D_             | A                                  | (No suffix)              | J                        |
| 5600                                     | 25 x 50            | 4.55                              | 5.23   | 0.059              | 0.044 | EETUQ1K562C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 35            | 4.55                              | 5.23   | 0.059              | 0.044 | EETUQ1K562D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 30            | 4.55                              | 5.23   | 0.059              | 0.044 | EETUQ1K562E_             | A                                  | (No suffix)              | J                        |
| 6800                                     | 30 x 45            | 5.16                              | 5.93   | 0.049              | 0.037 | EETUQ1K682D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 35            | 5.16                              | 5.93   | 0.049              | 0.037 | EETUQ1K682E_             | A                                  | (No suffix)              | J                        |
| 8200                                     | 30 x 50            | 5.83                              | 6.70   | 0.040              | 0.030 | EETUQ1K822D_             | A                                  | (No suffix)              | J                        |
|                                          | 35 x 40            | 5.83                              | 6.70   | 0.040              | 0.030 | EETUQ1K822E_             | A                                  | (No suffix)              | J                        |
| 10000                                    | 35 x 45            | 6.51                              | 7.49   | 0.033              | 0.025 | EETUQ1K103E_             | A                                  | (No suffix)              | J                        |
| 12000                                    | 35 x 50            | 7.28                              | 8.37   | 0.028              | 0.021 | EETUQ1K123E_             | A                                  | (No suffix)              | J                        |
| 100 VDC Working, 125 VDC Surge           |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 1000                                     | 22 x 25            | 1.96                              | 2.25   | 0.332              | 0.216 | EETUQ2A102B_             | A                                  | (No suffix)              | J                        |
| 1200                                     | 25 x 25            | 2.31                              | 2.66   | 0.276              | 0.180 | EETUQ2A122C_             | A                                  | (No suffix)              | J                        |
| 1500                                     | 22 x 30            | 2.57                              | 2.96   | 0.221              | 0.144 | EETUQ2A152B_             | A                                  | (No suffix)              | J                        |
| 1800                                     | 22 x 35            | 2.84                              | 3.27   | 0.184              | 0.120 | EETUQ2A182B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 30            | 2.84                              | 3.27   | 0.184              | 0.120 | EETUQ2A182C_             | A                                  | (No suffix)              | J                        |
| 2200                                     | 22 x 45            | 3.14                              | 3.61   | 0.151              | 0.098 | EETUQ2A222B_             | A                                  | (No suffix)              | J                        |
|                                          | 25 x 35            | 3.14                              | 3.61   | 0.151              | 0.098 | EETUQ2A222C_             | A                                  | (No suffix)              | J                        |
|                                          | 30 x 25            | 3.14                              | 3.61   | 0.151              | 0.098 | EETUQ2A222D_             | A                                  | (No suffix)              | J                        |

TS-UQ Standard Ratings (continued)

| TS-UQ Standard Ratings (continued)         |                    |                                   |        |                    |       |                          | Part Number Suffix Slewing Options |                          |                          |
|--------------------------------------------|--------------------|-----------------------------------|--------|--------------------|-------|--------------------------|------------------------------------|--------------------------|--------------------------|
| Cap.<br>(μF)                               | Size (mm)<br>D x L | Max 85°C R.C. (A <sub>rms</sub> ) |        | 20°C ESR (Ω, max.) |       | Panasonic<br>Part Number | PVC with Top<br>Plate              | PVC without<br>Top Plate | PET without<br>Top Plate |
|                                            |                    | 120Hz                             | 10kHz~ | 120Hz              | 20kHz |                          |                                    |                          |                          |
| 100 VDC Working, 125 VDC Surge (continued) |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 2700                                       | 22 x 50            | 3.71                              | 4.27   | 0.123              | 0.080 | EETUQ2A272B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 40            | 3.71                              | 4.27   | 0.123              | 0.080 | EETUQ2A272C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 30            | 3.71                              | 4.27   | 0.123              | 0.080 | EETUQ2A272D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 25            | 3.71                              | 4.27   | 0.123              | 0.080 | EETUQ2A272E_             | A                                  | (No suffix)              | J                        |
| 3300                                       | 25 x 45            | 4.06                              | 4.67   | 0.100              | 0.065 | EETUQ2A332C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 35            | 4.06                              | 4.67   | 0.100              | 0.065 | EETUQ2A332D_             | A                                  | (No suffix)              | J                        |
| 3900                                       | 25 x 50            | 4.54                              | 5.22   | 0.085              | 0.055 | EETUQ2A392C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 40            | 4.54                              | 5.22   | 0.085              | 0.055 | EETUQ2A392D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 30            | 4.54                              | 5.22   | 0.085              | 0.055 | EETUQ2A392E_             | A                                  | (No suffix)              | J                        |
| 4700                                       | 30 x 45            | 5.13                              | 5.90   | 0.071              | 0.046 | EETUQ2A472D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 35            | 5.13                              | 5.90   | 0.071              | 0.046 | EETUQ2A472E_             | A                                  | (No suffix)              | J                        |
| 5600                                       | 30 x 50            | 5.75                              | 6.61   | 0.059              | 0.041 | EETUQ2A562D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 40            | 5.75                              | 6.61   | 0.059              | 0.038 | EETUQ2A562E_             | A                                  | (No suffix)              | J                        |
| 6800                                       | 35 x 45            | 6.60                              | 7.59   | 0.049              | 0.034 | EETUQ2A682E_             | A                                  | (No suffix)              | J                        |
| 8200                                       | 35 x 50            | 7.29                              | 8.38   | 0.040              | 0.030 | EETUQ2A822E_             | A                                  | (No suffix)              | J                        |
| 160 VDC Working, 200 VDC Surge             |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 560                                        | 22 x 25            | 2.25                              | 3.15   | 0.355              | 0.160 | EETUQ2C561B_             | A                                  | (No suffix)              | J                        |
| 680                                        | 22 x 30            | 2.50                              | 3.50   | 0.293              | 0.132 | EETUQ2C681B_             | A                                  | (No suffix)              | J                        |
| 820                                        | 22 x 35            | 2.75                              | 3.85   | 0.243              | 0.109 | EETUQ2C821B_             | A                                  | (No suffix)              | J                        |
| 1000                                       | 22 x 40            | 3.00                              | 4.20   | 0.199              | 0.090 | EETUQ2C102B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 30            | 3.00                              | 4.20   | 0.199              | 0.090 | EETUQ2C102C_             | A                                  | (No suffix)              | J                        |
| 1200                                       | 22 x 45            | 3.25                              | 4.55   | 0.166              | 0.075 | EETUQ2C122B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 35            | 3.25                              | 4.55   | 0.166              | 0.075 | EETUQ2C122C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 25            | 3.25                              | 4.55   | 0.166              | 0.075 | EETUQ2C122D_             | A                                  | (No suffix)              | J                        |
| 1500                                       | 22 x 50            | 3.73                              | 5.22   | 0.133              | 0.060 | EETUQ2C152B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 40            | 3.73                              | 5.22   | 0.133              | 0.060 | EETUQ2C152C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 30            | 3.73                              | 5.22   | 0.133              | 0.060 | EETUQ2C152D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 25            | 3.73                              | 5.22   | 0.133              | 0.060 | EETUQ2C152E_             | A                                  | (No suffix)              | J                        |
| 1800                                       | 25 x 45            | 4.20                              | 5.88   | 0.111              | 0.050 | EETUQ2C182C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 35            | 4.20                              | 5.88   | 0.120              | 0.060 | EETUQ2C182D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 30            | 4.20                              | 5.88   | 0.111              | 0.050 | EETUQ2C182E_             | A                                  | (No suffix)              | J                        |
| 2200                                       | 30 x 40            | 4.78                              | 6.69   | 0.090              | 0.041 | EETUQ2C222D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 35            | 4.78                              | 6.69   | 0.098              | 0.049 | EETUQ2C222E_             | A                                  | (No suffix)              | J                        |
| 2700                                       | 30 x 45            | 5.45                              | 7.63   | 0.074              | 0.033 | EETUQ2C272D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 40            | 5.45                              | 7.63   | 0.080              | 0.040 | EETUQ2C272E_             | A                                  | (No suffix)              | J                        |
| 3300                                       | 35 x 45            | 5.75                              | 8.05   | 0.070              | 0.035 | EETUQ2C332E_             | A                                  | (No suffix)              | J                        |
| 3900                                       | 35 x 50            | 6.00                              | 8.40   | 0.055              | 0.028 | EETUQ2C392E_             | A                                  | (No suffix)              | J                        |
| 200 VDC Working, 250 VDC Surge             |                    |                                   |        |                    |       |                          |                                    |                          |                          |
| 390                                        | 22 x 25            | 1.68                              | 2.35   | 0.510              | 0.230 | EETUQ2D391B_             | A                                  | (No suffix)              | J                        |
| 470                                        | 22 x 30            | 1.85                              | 2.59   | 0.423              | 0.190 | EETUQ2D471B_             | A                                  | (No suffix)              | J                        |
| 560                                        | 22 x 30            | 2.43                              | 3.40   | 0.355              | 0.160 | EETUQ2D561B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 25            | 2.43                              | 3.40   | 0.355              | 0.160 | EETUQ2D561C_             | A                                  | (No suffix)              | J                        |
| 680                                        | 22 x 35            | 2.68                              | 3.75   | 0.293              | 0.132 | EETUQ2D681B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 30            | 2.68                              | 3.75   | 0.293              | 0.132 | EETUQ2D681C_             | A                                  | (No suffix)              | J                        |
| 820                                        | 22 x 40            | 2.93                              | 4.10   | 0.243              | 0.109 | EETUQ2D821B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 30            | 2.93                              | 4.10   | 0.243              | 0.109 | EETUQ2D821C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 25            | 2.93                              | 4.10   | 0.243              | 0.109 | EETUQ2D821D_             | A                                  | (No suffix)              | J                        |
| 1000                                       | 22 x 45            | 3.25                              | 4.55   | 0.199              | 0.090 | EETUQ2D102B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 35            | 3.25                              | 4.55   | 0.199              | 0.090 | EETUQ2D102C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 30            | 3.25                              | 4.55   | 0.199              | 0.090 | EETUQ2D102D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 25            | 3.25                              | 4.55   | 0.232              | 0.116 | EETUQ2D102E_             | A                                  | (No suffix)              | J                        |
| 1200                                       | 22 x 50            | 3.50                              | 4.90   | 0.166              | 0.075 | EETUQ2D122B_             | A                                  | (No suffix)              | J                        |
|                                            | 25 x 40            | 3.50                              | 4.90   | 0.166              | 0.075 | EETUQ2D122C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 30            | 3.50                              | 4.90   | 0.166              | 0.075 | EETUQ2D122D_             | A                                  | (No suffix)              | J                        |
| 1500                                       | 25 x 50            | 3.87                              | 5.42   | 0.133              | 0.060 | EETUQ2D152C_             | A                                  | (No suffix)              | J                        |
|                                            | 30 x 35            | 3.87                              | 5.42   | 0.144              | 0.065 | EETUQ2D152D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 30            | 3.87                              | 5.42   | 0.144              | 0.065 | EETUQ2D152E_             | A                                  | (No suffix)              | J                        |
| 1800                                       | 30 x 45            | 4.32                              | 6.05   | 0.120              | 0.060 | EETUQ2D182D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 35            | 4.32                              | 6.05   | 0.120              | 0.060 | EETUQ2D182E_             | A                                  | (No suffix)              | J                        |
| 2200                                       | 30 x 50            | 4.92                              | 6.89   | 0.098              | 0.049 | EETUQ2D222D_             | A                                  | (No suffix)              | J                        |
|                                            | 35 x 40            | 4.92                              | 6.89   | 0.105              | 0.053 | EETUQ2D222E_             | A                                  | (No suffix)              | J                        |
| 2700                                       | 35 x 50            | 5.45                              | 7.63   | 0.086              | 0.043 | EETUQ2D272E_             | A                                  | (No suffix)              | J                        |

TS-UQ Standard Ratings (continued)

| TS-UQ Standard Ratings (continued) |                    |                                   |        |                    |       |                          | Part Number Suffix Sleeving Options |                          |                          |
|------------------------------------|--------------------|-----------------------------------|--------|--------------------|-------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| Cap.<br>(μF)                       | Size (mm)<br>D x L | Max 85°C R.C. (A <sub>rms</sub> ) |        | 20°C ESR (Ω, max.) |       | Panasonic<br>Part Number | PVC with Top<br>Plate               | PVC without<br>Top Plate | PET without<br>Top Plate |
|                                    |                    | 120Hz                             | 10kHz~ | 120Hz              | 20kHz |                          |                                     |                          |                          |
| 250 VDC Working, 300 VDC Surge     |                    |                                   |        |                    |       |                          |                                     |                          |                          |
| 270                                | 22 x 25            | 1.31                              | 1.83   | 0.737              | 0.332 | EETUQ2E271B_             | A                                   | (No suffix)              | J                        |
| 330                                | 22 x 30            | 1.75                              | 2.45   | 0.603              | 0.271 | EETUQ2E331B_             | A                                   | (No suffix)              | J                        |
| 390                                | 22 x 30            | 1.91                              | 2.67   | 0.510              | 0.230 | EETUQ2E391B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 25            | 1.91                              | 2.67   | 0.510              | 0.230 | EETUQ2E391C_             | A                                   | (No suffix)              | J                        |
| 470                                | 22 x 35            | 2.11                              | 2.95   | 0.423              | 0.190 | EETUQ2E471B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 30            | 2.11                              | 2.95   | 0.423              | 0.190 | EETUQ2E471C_             | A                                   | (No suffix)              | J                        |
| 560                                | 22 x 40            | 2.25                              | 3.15   | 0.355              | 0.160 | EETUQ2E561B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 30            | 2.25                              | 3.15   | 0.355              | 0.160 | EETUQ2E561C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 25            | 2.25                              | 3.15   | 0.355              | 0.160 | EETUQ2E561D_             | A                                   | (No suffix)              | J                        |
| 680                                | 22 x 45            | 2.50                              | 3.50   | 0.293              | 0.132 | EETUQ2E681B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 35            | 2.50                              | 3.50   | 0.293              | 0.132 | EETUQ2E681C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 25            | 2.30                              | 3.22   | 0.293              | 0.132 | EETUQ2E681D_             | F                                   | U                        | C                        |
|                                    | 30 x 30            | 2.50                              | 3.50   | 0.293              | 0.132 | EETUQ2E681D_             | A                                   | (No suffix)              | J                        |
| 820                                | 22 x 50            | 2.77                              | 3.88   | 0.243              | 0.109 | EETUQ2E821B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 40            | 2.77                              | 3.88   | 0.243              | 0.109 | EETUQ2E821C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 30            | 2.77                              | 3.88   | 0.243              | 0.109 | EETUQ2E821D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 25            | 2.77                              | 3.88   | 0.243              | 0.121 | EETUQ2E821E_             | A                                   | (No suffix)              | J                        |
| 1000                               | 25 x 45            | 3.32                              | 4.65   | 0.199              | 0.090 | EETUQ2E102C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 35            | 3.32                              | 4.65   | 0.199              | 0.090 | EETUQ2E102D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 30            | 3.32                              | 4.65   | 0.199              | 0.090 | EETUQ2E102E_             | A                                   | (No suffix)              | J                        |
| 1200                               | 30 x 40            | 3.53                              | 4.94   | 0.166              | 0.075 | EETUQ2E122D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 35            | 3.53                              | 4.94   | 0.166              | 0.083 | EETUQ2E122E_             | A                                   | (No suffix)              | J                        |
| 1500                               | 30 x 50            | 4.04                              | 5.66   | 0.133              | 0.066 | EETUQ2E152D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 40            | 4.04                              | 5.66   | 0.133              | 0.066 | EETUQ2E152E_             | A                                   | (No suffix)              | J                        |
| 1800                               | 35 x 45            | 4.55                              | 6.37   | 0.111              | 0.055 | EETUQ2E182E_             | A                                   | (No suffix)              | J                        |
| 2200                               | 35 x 50            | 4.75                              | 6.65   | 0.098              | 0.049 | EETUQ2E222E_             | A                                   | (No suffix)              | J                        |
| 350 VDC Working, 400 VDC Surge     |                    |                                   |        |                    |       |                          |                                     |                          |                          |
| 150                                | 22 x 25            | 1.12                              | 1.57   | 1.326              | 0.663 | EETUQ2V151B_             | A                                   | (No suffix)              | J                        |
| 180                                | 22 x 30            | 1.22                              | 1.71   | 1.105              | 0.553 | EETUQ2V181B_             | A                                   | (No suffix)              | J                        |
| 220                                | 22 x 35            | 1.44                              | 2.02   | 0.904              | 0.452 | EETUQ2V221B_             | A                                   | (No suffix)              | J                        |
| 270                                | 22 x 40            | 1.66                              | 2.32   | 0.737              | 0.368 | EETUQ2V271B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 30            | 1.66                              | 2.32   | 0.737              | 0.368 | EETUQ2V271C_             | A                                   | (No suffix)              | J                        |
| 330                                | 22 x 45            | 1.88                              | 2.63   | 0.603              | 0.301 | EETUQ2V331B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 35            | 1.88                              | 2.63   | 0.603              | 0.301 | EETUQ2V331C_             | A                                   | (No suffix)              | J                        |
| 390                                | 22 x 50            | 2.06                              | 2.88   | 0.510              | 0.255 | EETUQ2V391B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 40            | 2.06                              | 2.88   | 0.510              | 0.255 | EETUQ2V391C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 30            | 2.06                              | 2.88   | 0.510              | 0.255 | EETUQ2V391D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 25            | 2.06                              | 2.88   | 0.510              | 0.255 | EETUQ2V391E_             | A                                   | (No suffix)              | J                        |
| 470                                | 25 x 45            | 2.40                              | 3.36   | 0.423              | 0.212 | EETUQ2V471C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 35            | 2.40                              | 3.36   | 0.423              | 0.212 | EETUQ2V471D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 30            | 2.40                              | 3.36   | 0.423              | 0.233 | EETUQ2V471E_             | A                                   | (No suffix)              | J                        |
| 560                                | 25 x 50            | 2.60                              | 3.64   | 0.355              | 0.178 | EETUQ2V561C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 40            | 2.60                              | 3.64   | 0.355              | 0.178 | EETUQ2V561D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 30            | 2.60                              | 3.64   | 0.355              | 0.195 | EETUQ2V561E_             | A                                   | (No suffix)              | J                        |
| 680                                | 30 x 45            | 2.96                              | 4.14   | 0.293              | 0.146 | EETUQ2V681D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 35            | 2.96                              | 4.14   | 0.293              | 0.146 | EETUQ2V681E_             | A                                   | (No suffix)              | J                        |
| 820                                | 30 x 50            | 3.25                              | 4.55   | 0.243              | 0.121 | EETUQ2V821D_             | A                                   | (No suffix)              | J                        |
|                                    | 35 x 45            | 3.25                              | 4.55   | 0.243              | 0.121 | EETUQ2V821E_             | A                                   | (No suffix)              | J                        |
| 1000                               | 35 x 50            | 3.54                              | 4.96   | 0.199              | 0.109 | EETUQ2V102E_             | A                                   | (No suffix)              | J                        |
| 400 VDC Working, 450 VDC Surge     |                    |                                   |        |                    |       |                          |                                     |                          |                          |
| 120                                | 22 x 25            | 1.02                              | 1.43   | 1.658              | 0.829 | EETUQ2G121B_             | A                                   | (No suffix)              | J                        |
| 150                                | 22 x 30            | 1.16                              | 1.62   | 1.326              | 0.663 | EETUQ2G151B_             | A                                   | (No suffix)              | J                        |
| 180                                | 22 x 30            | 1.30                              | 1.82   | 1.105              | 0.553 | EETUQ2G181B_             | F                                   | U                        | C                        |
|                                    | 22 x 35            | 1.44                              | 2.02   | 1.105              | 0.553 | EETUQ2G181B_             | A                                   | (No suffix)              | J                        |
| 220                                | 22 x 35            | 1.40                              | 1.96   | 0.904              | 0.452 | EETUQ2G221B_             | F                                   | U                        | C                        |
|                                    | 22 x 40            | 1.49                              | 2.09   | 0.904              | 0.452 | EETUQ2G221B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 30            | 1.49                              | 2.09   | 0.904              | 0.452 | EETUQ2G221C_             | A                                   | (No suffix)              | J                        |
| 270                                | 22 x 45            | 1.67                              | 2.34   | 0.737              | 0.368 | EETUQ2G271B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 35            | 1.67                              | 2.34   | 0.737              | 0.368 | EETUQ2G271C_             | A                                   | (No suffix)              | J                        |
|                                    | 30 x 30            | 1.67                              | 2.34   | 0.737              | 0.368 | EETUQ2G271D_             | A                                   | (No suffix)              | J                        |
| 330                                | 22 x 50            | 1.90                              | 2.66   | 0.603              | 0.301 | EETUQ2G331B_             | A                                   | (No suffix)              | J                        |
|                                    | 25 x 40            | 1.90                              | 2.66   | 0.603              | 0.301 | EETUQ2G331C_             | A                                   | (No suffix)              | J                        |

TS-UQ Standard Ratings (continued)

| TS-UQ Standard Ratings (continued)         |                    |                                   |        |                    |       |                          | Part Number Suffix Sleeving Options |                          |                          |
|--------------------------------------------|--------------------|-----------------------------------|--------|--------------------|-------|--------------------------|-------------------------------------|--------------------------|--------------------------|
| Cap.<br>(μF)                               | Size (mm)<br>D x L | Max 85°C R.C. (A <sub>rms</sub> ) |        | 20°C ESR (Ω, max.) |       | Panasonic<br>Part Number | PVC with Top<br>Plate               | PVC without<br>Top Plate | PET without<br>Top Plate |
|                                            |                    | 120Hz                             | 10kHz~ | 120Hz              | 20kHz |                          |                                     |                          |                          |
| 400 VDC Working, 450 VDC Surge (continued) |                    |                                   |        |                    |       |                          |                                     |                          |                          |
| 330                                        | 30 x 30            | 1.90                              | 2.66   | 0.603              | 0.301 | EETUQ2G331D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 25            | 1.90                              | 2.66   | 0.603              | 0.301 | EETUQ2G331E_             | A                                   | (No suffix)              | J                        |
| 390                                        | 25 x 45            | 2.13                              | 2.98   | 0.510              | 0.255 | EETUQ2G391C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 35            | 2.13                              | 2.98   | 0.510              | 0.255 | EETUQ2G391D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 30            | 2.13                              | 2.98   | 0.510              | 0.255 | EETUQ2G391E_             | A                                   | (No suffix)              | J                        |
| 470                                        | 25 x 50            | 2.39                              | 3.35   | 0.423              | 0.212 | EETUQ2G471C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 40            | 2.39                              | 3.35   | 0.423              | 0.212 | EETUQ2G471D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 30            | 2.39                              | 3.35   | 0.423              | 0.212 | EETUQ2G471E_             | A                                   | (No suffix)              | J                        |
| 560                                        | 30 x 45            | 2.69                              | 3.77   | 0.355              | 0.178 | EETUQ2G561D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 35            | 2.69                              | 3.77   | 0.355              | 0.178 | EETUQ2G561E_             | A                                   | (No suffix)              | J                        |
| 680                                        | 35 x 40            | 2.70                              | 3.78   | 0.293              | 0.146 | EETUQ2G681E_             | F                                   | U                        | C                        |
|                                            | 30 x 50            | 2.96                              | 4.14   | 0.293              | 0.146 | EETUQ2G681D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 45            | 2.96                              | 4.14   | 0.293              | 0.146 | EETUQ2G681E_             | A                                   | (No suffix)              | J                        |
| 820                                        | 35 x 45            | 2.96                              | 4.14   | 0.243              | 0.121 | EETUQ2G821E_             | F                                   | U                        | C                        |
|                                            | 35 x 50            | 3.25                              | 4.55   | 0.243              | 0.121 | EETUQ2G821E_             | A                                   | (No suffix)              | J                        |
| 420 VDC Working, 470 VDC Surge             |                    |                                   |        |                    |       |                          |                                     |                          |                          |
| 150                                        | 22 x 30            | 1.18                              | 1.65   | 1.326              | 0.663 | EETUQ2S151B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 25            | 1.18                              | 1.65   | 1.326              | 0.663 | EETUQ2S151C_             | A                                   | (No suffix)              | J                        |
| 180                                        | 22 x 35            | 1.40                              | 1.96   | 1.105              | 0.553 | EETUQ2S181B_             | A                                   | (No suffix)              | J                        |
| 220                                        | 22 x 40            | 1.52                              | 2.13   | 0.904              | 0.452 | EETUQ2S221B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 35            | 1.52                              | 2.13   | 0.904              | 0.452 | EETUQ2S221C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 25            | 1.52                              | 2.13   | 0.904              | 0.452 | EETUQ2S221D_             | A                                   | (No suffix)              | J                        |
| 270                                        | 22 x 45            | 1.73                              | 2.42   | 0.737              | 0.368 | EETUQ2S271B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 40            | 1.73                              | 2.42   | 0.737              | 0.368 | EETUQ2S271C_             | A                                   | (No suffix)              | J                        |
| 330                                        | 25 x 45            | 1.95                              | 2.73   | 0.603              | 0.301 | EETUQ2S331C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 30            | 1.95                              | 2.73   | 0.603              | 0.301 | EETUQ2S331D_             | A                                   | (No suffix)              | J                        |
| 390                                        | 25 x 50            | 2.17                              | 3.04   | 0.510              | 0.255 | EETUQ2S391C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 35            | 2.17                              | 3.04   | 0.510              | 0.255 | EETUQ2S391D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 30            | 2.17                              | 3.04   | 0.510              | 0.255 | EETUQ2S391E_             | A                                   | (No suffix)              | J                        |
| 470                                        | 30 x 40            | 2.44                              | 3.42   | 0.423              | 0.212 | EETUQ2S471D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 35            | 2.44                              | 3.42   | 0.423              | 0.212 | EETUQ2S471E_             | A                                   | (No suffix)              | J                        |
| 560                                        | 30 x 45            | 2.74                              | 3.84   | 0.355              | 0.178 | EETUQ2S561D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 40            | 2.74                              | 3.84   | 0.355              | 0.178 | EETUQ2S561E_             | A                                   | (No suffix)              | J                        |
| 680                                        | 35 x 45            | 3.11                              | 4.35   | 0.293              | 0.146 | EETUQ2S681E_             | A                                   | (No suffix)              | J                        |
| 450 VDC Working, 500 VDC Surge             |                    |                                   |        |                    |       |                          |                                     |                          |                          |
| 82                                         | 22 x 25            | 0.83                              | 1.16   | 2.426              | 1.213 | EETUQ2W820B_             | A                                   | (No suffix)              | J                        |
| 100                                        | 22 x 25            | 0.93                              | 1.30   | 1.989              | 0.995 | EETUQ2W101B_             | A                                   | (No suffix)              | J                        |
| 120                                        | 22 x 30            | 1.04                              | 1.46   | 1.658              | 0.829 | EETUQ2W121B_             | A                                   | (No suffix)              | J                        |
| 150                                        | 22 x 35            | 1.19                              | 1.67   | 1.326              | 0.663 | EETUQ2W151B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 30            | 1.19                              | 1.67   | 1.326              | 0.663 | EETUQ2W151C_             | A                                   | (No suffix)              | J                        |
| 180                                        | 22 x 40            | 1.35                              | 1.89   | 1.105              | 0.553 | EETUQ2W181B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 30            | 1.35                              | 1.89   | 1.105              | 0.553 | EETUQ2W181C_             | A                                   | (No suffix)              | J                        |
| 220                                        | 22 x 45            | 1.55                              | 2.17   | 0.904              | 0.452 | EETUQ2W221B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 35            | 1.45                              | 2.03   | 0.904              | 0.452 | EETUQ2W221C_             | F                                   | U                        | C                        |
|                                            | 25 x 40            | 1.55                              | 2.17   | 0.904              | 0.452 | EETUQ2W221C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 30            | 1.55                              | 2.17   | 0.904              | 0.452 | EETUQ2W221D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 25            | 1.55                              | 2.17   | 0.904              | 0.452 | EETUQ2W221E_             | A                                   | (No suffix)              | J                        |
| 270                                        | 22 x 50            | 1.78                              | 2.49   | 0.737              | 0.368 | EETUQ2W271B_             | A                                   | (No suffix)              | J                        |
|                                            | 25 x 40            | 1.78                              | 2.49   | 0.737              | 0.368 | EETUQ2W271C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 30            | 1.78                              | 2.49   | 0.737              | 0.368 | EETUQ2W271D_             | A                                   | (No suffix)              | J                        |
| 330                                        | 25 x 50            | 2.01                              | 2.81   | 0.603              | 0.301 | EETUQ2W331C_             | A                                   | (No suffix)              | J                        |
|                                            | 30 x 35            | 1.88                              | 2.63   | 0.603              | 0.301 | EETUQ2W331D_             | F                                   | U                        | C                        |
|                                            | 30 x 40            | 2.01                              | 2.81   | 0.603              | 0.301 | EETUQ2W331D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 30            | 2.01                              | 2.81   | 0.603              | 0.301 | EETUQ2W331E_             | A                                   | (No suffix)              | J                        |
| 390                                        | 30 x 40            | 2.24                              | 3.14   | 0.510              | 0.255 | EETUQ2W391D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 35            | 2.24                              | 3.14   | 0.510              | 0.255 | EETUQ2W391E_             | A                                   | (No suffix)              | J                        |
| 470                                        | 30 x 45            | 2.53                              | 3.54   | 0.423              | 0.212 | EETUQ2W471D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 40            | 2.53                              | 3.54   | 0.423              | 0.212 | EETUQ2W471E_             | A                                   | (No suffix)              | J                        |
| 560                                        | 30 x 50            | 2.82                              | 3.95   | 0.355              | 0.178 | EETUQ2W561D_             | A                                   | (No suffix)              | J                        |
|                                            | 35 x 45            | 2.82                              | 3.95   | 0.355              | 0.178 | EETUQ2W561E_             | A                                   | (No suffix)              | J                        |
| 680                                        | 35 x 50            | 3.02                              | 4.23   | 0.293              | 0.146 | EETUQ2W681E_             | A                                   | (No suffix)              | J                        |