

# UHW

Miniature Sized, High Ripple Current, High Reliability



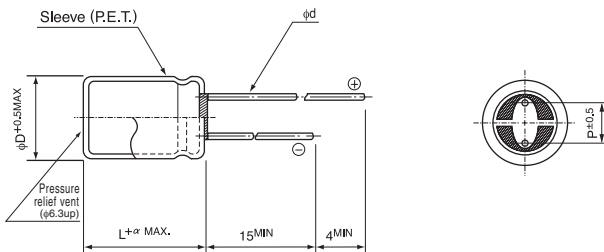
- Lower impedance at high frequency range.
- Smaller case size and high ripple current.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).



## Specifications

| Item   | Performance Characteristics   |  |            |             |             |             |      |      |      |      |       |  |
|--|---|--|------------|-------------|-------------|-------------|------|------|------|------|-------|--|
| Category Temperature Range   | -40 to +105°C   |  |            |             |             |             |      |      |      |      |       |  |
| Rated Voltage Range  | 6.3 to 100V   |  |            |             |             |             |      |      |      |      |       |  |
| Rated Capacitance Range  | 8.2 to 15000µF  |  |            |             |             |             |      |      |      |      |       |  |
| Capacitance Tolerance  | ±20% at 120Hz, 20°C   |  |            |             |             |             |      |      |      |      |       |  |
| Leakage Current  | After 2 minutes' application of rated voltage at 20°C, leakage current is not more than 0.01CV (µA) |  |            |             |             |             |      |      |      |      |       |  |
| Tangent of loss angle (tan δ)  | Rated voltage (V)   | 6.3  | 10         | 16          | 25          | 35          | 50   | 63   | 80   | 100  | 120Hz |  |
|  | tan δ (MAX.)  | 0.21   | 0.18       | 0.15        | 0.13        | 0.11        | 0.10 | 0.09 | 0.09 | 0.08 | 20°C  |  |
| For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.  |   |  |            |             |             |             |      |      |      |      |       |  |
| Stability at Low Temperature   | Rated voltage (V)   | 6.3  | 10         | 16          | 25          | 35          | 50   | 63   | 80   | 100  | 120Hz |  |
|  | Impedance ratio (MAX.)  | Z-25°C / Z+20°C  | 2          | 2           | 2           | 2           | 2    | 2    | 2    | 2    | 2     |  |
|  |   | Z-40°C / Z+20°C  | 5          | 5           | 4           | 4           | 4    | 4    | 3    | 3    | 3     |  |
| The following specifications shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied at 105°C, the peak voltage shall not exceed the rated voltage. |   |  |            |             |             |             |      |      |      |      |       |  |
| Endurance  | Case size   | φD ≤ 6.3   | 8×11.5     | 8×15, 8×20  | φD ≥ 10     |             |      |      |      |      |       |  |
|  | Rated voltage (V)   | 6.3V   | 6000 hours | 8000 hours  | 9000 hours  | 10000 hours |      |      |      |      |       |  |
|  |   | 10 to 50V  | 7000 hours | 9000 hours  | 10000 hours | 10000 hours |      |      |      |      |       |  |
|  |   | 63 to 100V   | 8000 hours | 10000 hours | 11000 hours | 12000 hours |      |      |      |      |       |  |
|  | Capacitance change  | Within ±25% of the initial capacitance value (6.3V 10V : ±30%) |            |             |             |             |      |      |      |      |       |  |
|  | tan δ   | 200% or less than the initial specified value                  |            |             |             |             |      |      |      |      |       |  |
| Leakage current  | Less than or equal to the initial specified value   |  |            |             |             |             |      |      |      |      |       |  |
| Marking  | Printed with white color letter on black sleeve.  |  |            |             |             |             |      |      |      |      |       |  |

## Radial Lead Type



| α  | (L < 20) |     | (L ≥ 20) |     |     |                  |     |      |     |     |
|----|----------|-----|----------|-----|-----|------------------|-----|------|-----|-----|
|    | 1.5      | 2.0 | φD       | 5   | 6.3 | 8                | 10  | 12.5 | 16  | 18  |
| P  | 2.0      | 2.5 | 3.5      | 5.0 | 5.0 | 7.5              | 7.5 | 7.5  | 7.5 | 7.5 |
| φd | 0.5      | 0.5 | 0.6      | 0.6 | 0.6 | 0.6 <sup>※</sup> | 0.8 | 0.8  | 0.8 | 0.8 |

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

• Please refer to page 20 about the end seal configuration.

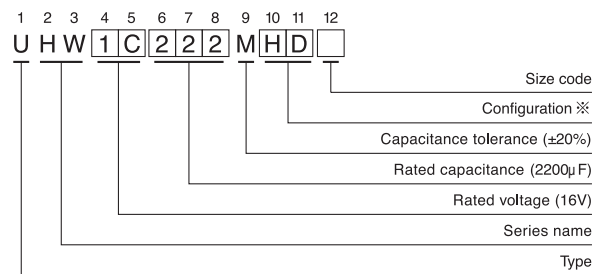
### Frequency coefficient of rated ripple current

| Cap. (µF)     | Frequency | 120Hz | 1kHz | 10kHz | 10kHz or more |
|---------------|-----------|-------|------|-------|---------------|
| 8.2 to 33     |           | 0.40  | 0.70 | 0.90  | 1.00          |
| 39 to 180     |           | 0.40  | 0.75 | 0.90  | 1.00          |
| 220 to 560    |           | 0.50  | 0.85 | 0.94  | 1.00          |
| 680 to 1800   |           | 0.60  | 0.87 | 0.95  | 1.00          |
| 2200 to 3900  |           | 0.75  | 0.90 | 0.95  | 1.00          |
| 4700 to 15000 |           | 0.85  | 0.95 | 0.98  | 1.00          |

Please refer to page 20, 21, 22 about the formed or taped product spec.  
Please refer to page 4 for the minimum order quantity.

• Dimension table in next page.

## Type numbering system (Example : 16V 2200µF)



※ Configuration

| φ D        | Pb-free leadwire<br>Pb-free PET sleeve |
|------------|--|
| 5          | DD                                     |
| 6.3        | ED                                     |
| 8 - 10     | PD                                     |
| 12.5 to 18 | HD                                     |

## UHW

### ■ Dimensions

| V (Code)<br>Cap.(μF)<br>Code |     | Item        | 6.3 (0J)                    |                    |               |  | 10 (1A)                     |                    |               |  |
|------------------------------|-----|-------------|-----------------------------|--------------------|---------------|--|-----------------------------|--------------------|---------------|--|
|                              |     |             | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz |
|                              |     |             |                             | 20°C /100kHz       | -10°C /100kHz |  |                             | 20°C /100kHz       | -10°C /100kHz |  |
| 150                          | 151 |             |                             |                    |               |  |                             |                    |               |  |
| 220                          | 221 | 5 × 11      | 0.47                        | 1.50               | 450           |  | 0.47                        | 1.50               | 450           |  |
| 330                          | 331 |             |                             |                    |               | 6.3 × 11                                 | 0.20                        | 0.66               | 700           |  |
| 470                          | 471 | 6.3 × 11    | 0.20                        | 0.66               | 700           |  |                             |                    |               |  |
| 560                          | 561 |             |                             |                    |               | 8 × 11.5                                 | 0.10                        | 0.36               | 1200          |  |
| 680                          | 681 |             |                             |                    |               |  |                             |                    |               |  |
| 820                          | 821 | 8 × 11.5    | 0.10                        | 0.36               | 1200          | 8 × 15                                   | 0.054                       | 0.17               | 1600          |  |
| 1000                         | 102 | 8 × 15      | 0.054                       | 0.17               | 1600          | 10 × 12.5                                | 0.048                       | 0.15               | 1700          |  |
| 1200                         | 122 | 10 × 12.5   | 0.048                       | 0.15               | 1700          | ▲8 × 20                                  | 0.038                       | 0.12               | 1960          |  |
|                              |     |             |                             |                    |               | 10 × 16                                  | 0.030                       | 0.090              | 2000          |  |
| 1500                         | 152 | 8 × 20      | 0.038                       | 0.12               | 1960          | 10 × 16                                  | 0.030                       | 0.090              | 2000          |  |
| 1800                         | 182 | 10 × 16     | 0.030                       | 0.090              | 2000          | 10 × 20                                  | 0.020                       | 0.060              | 2500          |  |
| 2200                         | 222 | 10 × 20     | 0.020                       | 0.060              | 2500          | 10 × 25                                  | 0.017                       | 0.051              | 2900          |  |
| 2700                         | 272 | 10 × 20     | 0.020                       | 0.060              | 2500          | 12.5 × 20                                | 0.017                       | 0.051              | 2600          |  |
| 3300                         | 332 | 10 × 25     | 0.017                       | 0.051              | 2900          | 12.5 × 20                                | 0.017                       | 0.051              | 2600          |  |
| 3900                         | 392 | 12.5 × 20   | 0.017                       | 0.051              | 2600          | 12.5 × 25                                | 0.015                       | 0.045              | 3200          |  |
| 4700                         | 472 | 12.5 × 25   | 0.015                       | 0.045              | 3200          | 12.5 × 31.5                              | 0.012                       | 0.036              | 3795          |  |
|                              |     |             |                             |                    |               | ▲16 × 20                                 | 0.015                       | 0.045              | 3575          |  |
| 5600                         | 562 | 12.5 × 31.5 | 0.012                       | 0.036              | 3795          | 12.5 × 35.5                              | 0.011                       | 0.033              | 4120          |  |
|                              |     | ▲12.5 × 25  | 0.015                       | 0.045              | 3200          | ▲16 × 25                                 | 0.013                       | 0.039              | 3810          |  |
| 6800                         | 682 | 12.5 × 31.5 | 0.012                       | 0.033              | 3795          | 16 × 25                                  | 0.013                       | 0.039              | 3810          |  |
|                              |     | ▲16 × 20    | 0.015                       | 0.045              | 3575          |  |                             |                    |               |  |
| 8200                         | 822 | 16 × 25     | 0.013                       | 0.039              | 3810          | 16 × 31.5                                | 0.011                       | 0.033              | 4000          |  |
| 10000                        | 103 | 16 × 25     | 0.013                       | 0.039              | 3810          | 16 × 31.5                                | 0.011                       | 0.033              | 4000          |  |
| 12000                        | 123 | 16 × 31.5   | 0.011                       | 0.033              | 4000          | 16 × 35.5                                | 0.010                       | 0.030              | 4200          |  |
| 15000                        | 153 | 16 × 35.5   | 0.010                       | 0.030              | 4200          |  |                             |                    |               |  |

| V (Code)<br>Cap.(μF)<br>Code |     | Item        | 16 (1C)                     |                    |               |  | 25 (1E)                     |                    |               |  |
|------------------------------|-----|-------------|-----------------------------|--------------------|---------------|--|-----------------------------|--------------------|---------------|--|
|                              |     |             | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz |
|                              |     |             |                             | 20°C /100kHz       | -10°C /100kHz |  |                             | 20°C /100kHz       | -10°C /100kHz |  |
| 68                           | 680 |             |                             |                    |               | 5 × 11                                   | 0.47                        | 1.50               | 450           |  |
| 120                          | 121 | 5 × 11      | 0.47                        | 1.50               | 450           |  |                             |                    |               |  |
| 150                          | 151 |             |                             |                    |               | 6.3 × 11                                 | 0.20                        | 0.66               | 700           |  |
| 180                          | 181 |             |                             |                    |               | 6.3 × 11                                 | 0.20                        | 0.66               | 700           |  |
| 270                          | 271 | 6.3 × 11    | 0.20                        | 0.66               | 700           |  |                             |                    |               |  |
| 330                          | 331 |             |                             |                    |               | 8 × 11.5                                 | 0.10                        | 0.36               | 1200          |  |
| 390                          | 391 |             |                             |                    |               | 8 × 15                                   | 0.054                       | 0.17               | 1600          |  |
| 470                          | 471 | 8 × 11.5    | 0.10                        | 0.36               | 1200          | 10 × 12.5                                | 0.048                       | 0.15               | 1700          |  |
| 560                          | 561 | 8 × 15      | 0.054                       | 0.17               | 1600          | 8 × 20                                   | 0.038                       | 0.12               | 1960          |  |
| 680                          | 681 | 10 × 12.5   | 0.048                       | 0.15               | 1700          | 10 × 16                                  | 0.030                       | 0.090              | 2000          |  |
| 820                          | 821 | ▲8 × 20     | 0.038                       | 0.12               | 1960          | 10 × 20                                  | 0.020                       | 0.060              | 2500          |  |
|                              |     | 10 × 16     | 0.030                       | 0.090              | 2000          | ▲10 × 16                                 | 0.030                       | 0.090              | 2000          |  |
| 1000                         | 102 | ▲8 × 20     | 0.038                       | 0.12               | 1960          | 10 × 20                                  | 0.020                       | 0.060              | 2500          |  |
|                              |     | 10 × 16     | 0.030                       | 0.090              | 2000          |  |                             |                    |               |  |
| 1200                         | 122 | 10 × 20     | 0.020                       | 0.060              | 2500          | 10 × 25                                  | 0.017                       | 0.051              | 2900          |  |
|                              |     | ▲10 × 16    | 0.030                       | 0.090              | 2000          |  |                             |                    |               |  |
| 1500                         | 152 | 10 × 20     | 0.020                       | 0.060              | 2500          | 12.5 × 20                                | 0.017                       | 0.051              | 2600          |  |
| 1800                         | 182 | 10 × 25     | 0.017                       | 0.051              | 2900          | 12.5 × 25                                | 0.015                       | 0.045              | 3200          |  |
| 2200                         | 222 | 12.5 × 20   | 0.017                       | 0.051              | 2600          | 12.5 × 25                                | 0.015                       | 0.045              | 3200          |  |
|                              |     |             |                             |                    |               | ▲16 × 20                                 | 0.015                       | 0.045              | 3575          |  |
| 2700                         | 272 | 12.5 × 25   | 0.015                       | 0.045              | 3200          | 12.5 × 31.5                              | 0.012                       | 0.036              | 3795          |  |
|                              |     |             |                             |                    |               | ▲16 × 20                                 | 0.015                       | 0.045              | 3575          |  |
| 3300                         | 332 | 12.5 × 25   | 0.015                       | 0.045              | 3200          | 12.5 × 35.5                              | 0.011                       | 0.033              | 4120          |  |
|                              |     | ▲16 × 20    | 0.015                       | 0.045              | 3575          | ▲16 × 25                                 | 0.013                       | 0.039              | 3810          |  |
| 3900                         | 392 | 12.5 × 31.5 | 0.012                       | 0.036              | 3795          | 16 × 25                                  | 0.013                       | 0.039              | 3810          |  |
|                              |     | ▲16 × 20    | 0.015                       | 0.045              | 3575          |  |                             |                    |               |  |
| 4700                         | 472 | 12.5 × 35.5 | 0.011                       | 0.033              | 4120          | 16 × 31.5                                | 0.011                       | 0.033              | 4000          |  |
|                              |     | ▲16 × 25    | 0.013                       | 0.039              | 3810          |  |                             |                    |               |  |
| 5600                         | 562 | 16 × 25     | 0.013                       | 0.039              | 3810          | 16 × 35.5                                | 0.010                       | 0.030              | 4200          |  |
| 6800                         | 682 | 16 × 31.5   | 0.011                       | 0.033              | 4000          |  |                             |                    |               |  |
| 8200                         | 822 | 16 × 35.5   | 0.010                       | 0.030              | 4200          |  |                             |                    |               |  |

## UHW

### ■ Dimensions

| Cap.(μF) | Code | V (Code) | Item | 35 (1V)                     |                    |               | 50 (1H)                                  |                             |                    |               |  |
|----------|------|----------|------|-----------------------------|--------------------|---------------|--|-----------------------------|--------------------|---------------|--|
|          |      |          |      | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz |
|          |      |          |      |                             | 20°C /100kHz       | -10°C /100kHz |  |                             | 20°C /100kHz       | -10°C /100kHz |  |
| 27       | 270  |          |      |                             |                    |               | 5 × 11                                   | 0.47                        | 1.50               | 450           |  |
| 47       | 470  |          |      | 5 × 11                      | 0.47               | 1.50          |  |                             |                    |               |  |
| 56       | 560  |          |      |                             |                    |               | 6.3 × 11                                 | 0.20                        | 0.66               | 700           |  |
| 100      | 101  |          |      | 6.3 × 11                    | 0.20               | 0.66          | 8 × 11.5                                 | 0.10                        | 0.36               | 1200          |  |
| 120      | 121  |          |      |                             |                    |               | 8 × 11.5                                 | 0.10                        | 0.36               | 1200          |  |
| 150      | 151  |          |      |                             |                    |               | 8 × 15                                   | 0.054                       | 0.17               | 1600          |  |
| 180      | 181  |          |      | 8 × 11.5                    | 0.10               | 0.36          | 10 × 12.5                                | 0.048                       | 0.15               | 1700          |  |
| 220      | 221  |          |      | 8 × 15                      | 0.054              | 0.17          | ▲10 × 12.5                               | 0.048                       | 0.15               | 1700          |  |
|          |      |          |      |                             |                    |               | 10 × 16                                  | 0.042                       | 0.126              | 1650          |  |
| 270      | 271  |          |      | 8 × 15                      | 0.054              | 0.17          | ▲8 × 20                                  | 0.038                       | 0.12               | 1960          |  |
|          |      |          |      | ▲10 × 12.5                  | 0.048              | 0.15          | 1700                                     | 10 × 20                     | 0.030              | 0.090         | 2060                                     |
| 330      | 331  |          |      | 10 × 12.5                   | 0.048              | 0.15          | 1700                                     | 10 × 20                     | 0.030              | 0.090         | 2060                                     |
| 390      | 391  |          |      | ▲8 × 20                     | 0.038              | 0.12          | 1960                                     | 10 × 25                     | 0.028              | 0.084         | 2420                                     |
|          |      |          |      | 10 × 16                     | 0.030              | 0.090         | 2000                                     | ▲10 × 20                    | 0.030              | 0.090         | 2060                                     |
| 470      | 471  |          |      | 10 × 16                     | 0.030              | 0.090         | 2000                                     | 10 × 25                     | 0.028              | 0.084         | 2420                                     |
|          |      |          |      |                             |                    |               | ▲12.5 × 20                               | 0.027                       | 0.081              | 2300          |  |
| 560      | 561  |          |      | 10 × 20                     | 0.020              | 0.060         | 2500                                     | 12.5 × 20                   | 0.027              | 0.081         | 2300                                     |
| 680      | 681  |          |      | 10 × 25                     | 0.017              | 0.051         | 2900                                     | 12.5 × 25                   | 0.023              | 0.069         | 2800                                     |
|          |      |          |      | ▲10 × 20                    | 0.020              | 0.060         | 2500                                     |                             |                    |               |  |
| 820      | 821  |          |      | 10 × 25                     | 0.017              | 0.051         | 2900                                     | 12.5 × 25                   | 0.023              | 0.069         | 2800                                     |
|          |      |          |      | ▲12.5 × 20                  | 0.017              | 0.051         | 2600                                     | ▲16 × 20                    | 0.023              | 0.069         | 3070                                     |
| 1000     | 102  |          |      | 12.5 × 20                   | 0.017              | 0.051         | 2600                                     | 12.5 × 31.5                 | 0.020              | 0.060         | 3500                                     |
|          |      |          |      |                             |                    |               | ▲16 × 25                                 | 0.021                       | 0.063              | 3270          |  |
| 1200     | 122  |          |      | 12.5 × 25                   | 0.015              | 0.045         | 3200                                     | 16 × 25                     | 0.021              | 0.063         | 3270                                     |
| 1500     | 152  |          |      | 16 × 20                     | 0.015              | 0.045         | 3575                                     | 12.5 × 35.5                 | 0.019              | 0.057         | 3810                                     |
|          |      |          |      |                             |                    |               | ▲16 × 25                                 | 0.021                       | 0.063              | 3270          |  |
| 1800     | 182  |          |      | 12.5 × 31.5                 | 0.012              | 0.036         | 3795                                     | 16 × 31.5                   | 0.019              | 0.057         | 3430                                     |
|          |      |          |      | ▲16 × 25                    | 0.013              | 0.039         | 3810                                     |                             |                    |               |  |
| 2200     | 222  |          |      | 12.5 × 35.5                 | 0.011              | 0.033         | 4120                                     | 16 × 31.5                   | 0.019              | 0.057         | 3430                                     |
|          |      |          |      | ▲16 × 25                    | 0.013              | 0.039         | 3810                                     |                             |                    |               |  |
| 2700     | 272  |          |      |                             |                    |               | 16 × 35.5                                | 0.018                       | 0.054              | 3600          |  |
| 3300     | 332  |          |      | 16 × 31.5                   | 0.011              | 0.033         | 4000                                     |                             |                    |               |  |
| 3900     | 392  |          |      | 16 × 35.5                   | 0.010              | 0.030         | 4200                                     |                             |                    |               |  |

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

## UHW

### ■ Dimensions

| Cap.(μF) |     | V (Code)<br>Item<br>Code |            | 63 (1J)                     |                    |               | 80 (1K)                                  |                             |                    |               |  |
|----------|-----|--------------------------|------------|-----------------------------|--------------------|---------------|--|-----------------------------|--------------------|---------------|--|
|          |     |                          |            | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz |
|          |     |                          |            |                             | 20°C /100kHz       | -10°C /100kHz |  |                             | 20°C /100kHz       | -10°C /100kHz |  |
| 12       | 120 |                          |            |                             |                    |               |  |                             |                    |               |  |
| 18       | 180 | 5 × 11                   |            | 1.20                        | 5.40               | 310           | 5 × 11                                   | 1.20                        | 5.40               | 310           |  |
| 27       | 270 |                          |            |                             |                    |               | 6.3 × 11                                 | 0.46                        | 2.10               | 500           |  |
| 39       | 390 | 6.3 × 11                 |            | 0.46                        | 2.10               | 500           |  |                             |                    |               |  |
| 47       | 470 | 6.3 × 11                 |            | 0.46                        | 2.10               | 500           | 8 × 11.5                                 | 0.29                        | 1.30               | 950           |  |
| 68       | 680 | 8 × 11.5                 |            | 0.29                        | 1.30               | 950           | 8 × 15                                   | 0.20                        | 0.90               | 1230          |  |
| 82       | 820 | 8 × 11.5                 |            | 0.29                        | 1.30               | 950           | 10 × 12.5                                | 0.17                        | 0.66               | 1280          |  |
| 100      | 101 | 8 × 15                   |            | 0.20                        | 0.90               | 1230          | 8 × 20                                   | 0.16                        | 0.66               | 1580          |  |
| 120      | 121 | 8 × 15                   |            | 0.20                        | 0.90               | 1230          | 10 × 16                                  | 0.115                       | 0.47               | 1040          |  |
|          |     | ▲10 × 12.5               |            | 0.17                        | 0.66               | 1280          |  |                             |                    |               |  |
| 150      | 151 | 8 × 20                   |            | 0.16                        | 0.66               | 1580          |  |                             |                    |               |  |
|          |     | ▲10 × 12.5               |            | 0.17                        | 0.66               | 1280          |  |                             |                    |               |  |
| 180      | 181 | ▲8 × 20                  |            | 0.16                        | 0.66               | 1580          | 10 × 20                                  | 0.088                       | 0.34               | 1430          |  |
|          |     | 10 × 16                  |            | 0.115                       | 0.47               | 1200          | ▲12.5 × 15                               | 0.115                       | 0.47               | 1430          |  |
| 220      | 221 |                          |            |                             |                    | 10 × 25       | 0.072                                    | 0.28                        | 1620               |               |  |
| 270      | 271 | 10 × 20                  |            | 0.088                       | 0.34               | 1570          | 10 × 31.5                                | 0.063                       | 0.18               | 1750          |  |
|          |     |                          | ▲12.5 × 20 |                             |                    |               | 0.065                                    | 0.18                        | 1750               |               |  |
| 330      | 331 | 10 × 25                  |            | 0.072                       | 0.28               | 1990          |  |                             |                    |               |  |
| 390      | 391 | 10 × 31.5                |            | 0.063                       | 0.18               | 2050          | 12.5 × 25                                | 0.049                       | 0.14               | 2210          |  |
|          |     | ▲12.5 × 20               |            | 0.065                       | 0.18               | 1990          |  |                             |                    |               |  |
| 470      | 471 |                          |            |                             |                    |               | 12.5 × 31.5                              | 0.044                       | 0.13               | 2400          |  |
|          |     |                          |            |                             |                    |               | ▲16 × 20                                 | 0.050                       | 0.15               | 1950          |  |
| 560      | 561 | 12.5 × 25                |            | 0.049                       | 0.14               | 2460          | 12.5 × 35.5                              | 0.038                       | 0.11               | 2600          |  |
|          |     |                          | ▲18 × 20   |                             |                    |               | 0.047                                    | 0.14                        | 2270               |               |  |
| 680      | 681 | 12.5 × 31.5              |            | 0.044                       | 0.13               | 2760          | 12.5 × 40                                | 0.033                       | 0.095              | 2860          |  |
|          |     | ▲16 × 20                 |            | 0.050                       | 0.15               | 2380          | ▲16 × 25                                 | 0.040                       | 0.12               | 2430          |  |
| 820      | 821 | 12.5 × 35.5              |            | 0.038                       | 0.11               | 3040          | 16 × 31.5                                | 0.033                       | 0.095              | 2640          |  |
|          |     | ▲18 × 20                 |            | 0.047                       | 0.14               | 2460          | ▲18 × 25                                 | 0.038                       | 0.11               | 2500          |  |
| 1000     | 102 | 12.5 × 40                |            | 0.033                       | 0.095              | 3100          | 16 × 35.5                                | 0.030                       | 0.086              | 2860          |  |
|          |     | ▲16 × 25                 |            | 0.040                       | 0.12               | 2890          |  |                             |                    |               |  |
| 1200     | 122 | 16 × 31.5                |            | 0.025                       | 0.072              | 2930          | 16 × 40                                  | 0.028                       | 0.081              | 3510          |  |
|          |     | ▲18 × 25                 |            | 0.038                       | 0.11               | 2930          | ▲18 × 31.5                               | 0.031                       | 0.090              | 2860          |  |
| 1500     | 152 | 16 × 35.5                |            | 0.023                       | 0.066              | 3100          | 18 × 35.5                                | 0.028                       | 0.081              | 3510          |  |
|          |     | ▲18 × 31.5               |            | 0.024                       | 0.069              | 3100          |  |                             |                    |               |  |
| 1800     | 182 | 16 × 40                  |            | 0.021                       | 0.060              | 3510          | 18 × 40                                  | 0.027                       | 0.076              | 3860          |  |
|          |     | ▲18 × 35.5               |            | 0.022                       | 0.063              | 3510          |  |                             |                    |               |  |
| 2200     | 222 | 18 × 40                  |            | 0.020                       | 0.057              | 3860          |  |                             |                    |               |  |

| Cap.(μF) |     | V (Code)<br>Item<br>Code |  | 100 (2A)                    |                    |               |  |
|----------|-----|--------------------------|--|-----------------------------|--------------------|---------------|--|
|          |     |                          |  | Case size<br>φD × L<br>(mm) | Impedance (Ω) MAX. |               | Rated ripple<br>(mArms)<br>105°C /100kHz |
|          |     |                          |  |                             | 20°C /100kHz       | -10°C /100kHz |  |
| 8.2      | 8R2 | 5 × 11                   |  | 1.20                        | 5.40               | 310           |  |
| 18       | 180 | 6.3 × 11                 |  | 0.46                        | 2.10               | 500           |  |
| 33       | 330 | 8 × 11.5                 |  | 0.29                        | 1.30               | 950           |  |
| 47       | 470 | 8 × 15                   |  | 0.20                        | 0.90               | 1230          |  |
| 56       | 560 | 10 × 12.5                |  | 0.17                        | 0.66               | 1280          |  |
| 68       | 680 | 8 × 20                   |  | 0.16                        | 0.66               | 1580          |  |
| 82       | 820 | 10 × 16                  |  | 0.115                       | 0.47               | 1040          |  |
| 100      | 101 | 10 × 20                  |  | 0.088                       | 0.34               | 1430          |  |
|          |     | ▲12.5 × 15               |  | 0.115                       | 0.47               | 1430          |  |
| 120      | 121 | 10 × 25                  |  | 0.072                       | 0.28               | 1620          |  |
| 180      | 181 | 12.5 × 20                |  | 0.065                       | 0.18               | 1750          |  |
| 220      | 221 | 12.5 × 25                |  | 0.049                       | 0.14               | 2210          |  |
| 270      | 271 | 12.5 × 31.5              |  | 0.044                       | 0.13               | 2400          |  |
|          |     | ▲16 × 20                 |  | 0.050                       | 0.15               | 1950          |  |
| 390      | 391 | 12.5 × 35.5              |  | 0.038                       | 0.11               | 2600          |  |
|          |     | ▲16 × 25                 |  | 0.040                       | 0.12               | 2430          |  |
| 470      | 471 | ●18 × 20                 |  | 0.047                       | 0.14               | 2270          |  |
|          |     | 12.5 × 40                |  | 0.033                       | 0.095              | 2860          |  |
| 560      | 561 | ▲18 × 25                 |  | 0.038                       | 0.11               | 2500          |  |
|          |     | 16 × 31.5                |  | 0.033                       | 0.095              | 2640          |  |
| 680      | 681 | 16 × 35.5                |  | 0.030                       | 0.086              | 2860          |  |
|          |     | ▲18 × 31.5               |  | 0.031                       | 0.090              | 2860          |  |
| 820      | 821 | 16 × 40                  |  | 0.028                       | 0.081              | 3510          |  |
|          |     | ▲18 × 35.5               |  | 0.028                       | 0.081              | 3510          |  |
| 1000     | 102 | 18 × 40                  |  | 0.027                       | 0.076              | 3860          |  |

▲: In this case, [6] will be put at 12th digit of type numbering system.  
●: In this case, [3] will be put at 12th digit of type numbering system.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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