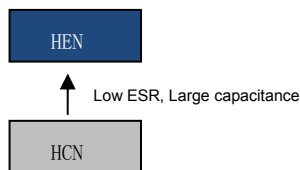


- Low ESR, Large Capacitance 105°C, 2000 hours.
- Ultra Low ESR, high ripple current capability
- Applications: DC/DC Converter, Switching Power Supply, Back up Power Supplies for CPU etc.
- RoHS Compliant



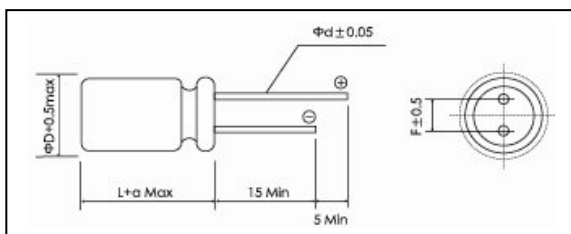
| Items   | Characteristics  |
|---|--|
| Operating Temperature Range (°C)                            | -55 ~ +105   |
| Voltage Range (V)   | 2.5 ~ 16   |
| Capacitance Range (μF) (20°C, 120Hz)                        | 180~2700   |
| Capacitance Tolerance (20°C, 120Hz)                         | ± 20%  |
| Surge Voltage   | UR x 1.15  |
| Leakage Current (μA) ※1                                     | Please see the attached ratings list (20°C, 2min)  |
| Dissipation Factor (20°C, 120Hz)                            | Please see the attached ratings list   |
| Equivalent Series Resistance(20°C, 100kHz)                  | Please see the attached ratings list   |
| Temperature Characteristics (Max Impedance Ratio at 100kHz) | $Z_{+105^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$<br>$Z_{-55^{\circ}\text{C}}/Z_{+20^{\circ}\text{C}} \leq 1.25$  |
| Endurance   | <b>2000h, Rated voltage applied at 105°C</b><br>Capacitance change: within ± 20% of the initial measured value<br>Dissipation Factor (Tan δ): ≤150% of initial specified value<br>ESR: ≤150% of initial specified value<br>DC Leakage Current: ≤the initial specified value                                |
| Damp heat(Steady state)                                     | <b>1000h, No-applied voltage 60°C ,90~95% RH</b><br>Capacitance change: within ± 20% of the initial measured value<br>Dissipation Factor (Tan δ): ≤150% of initial specified value<br>ESR: ≤150% of initial specified value<br>DC Leakage Current: ≤the initial specified value (after voltage processing) |
| Resistance to soldering heat                                | <b>Flow method (260 ± 5°C x 10s)</b><br>Capacitance change: within ± 5% of the initial measured value<br>Dissipation Factor (Tan δ): ≤the initial specified value<br>ESR: ≤the initial specified value<br>DC Leakage Current: ≤the initial specified value (after voltage processing)                      |

※1 In case of some problems for measured values, measure after applying rated voltage for 120 minutes at 105°C.

## Dimensions

mm

(unit:mm)



| Size Code | ΦD±0.5 | L    | amax | F±0.5 | Φd±0.05 |
|-----------|--------|------|------|-------|---------|
| BAB       | 8.0    | 11.5 | 1.5  | 3.5   | 0.6     |
| C10       | 10.0   | 10.0 | 1.0  | 5.0   | 0.6     |
| CAC       | 10.0   | 12.5 | 1.5  | 5.0   | 0.6     |

## Size List

| UR [5.V] (V) | 2.5 [2.9] | 4 [4.6]  | 6.3 [7.2] | 10 [12]  | 16 [18]  |
|--------------|-----------|----------|-----------|----------|----------|
| Cap.(μF)     |           |          |           |          |          |
| 180          |           |          |           |          | BAB      |
| 270          |           |          |           | BAB      | BAB      |
| 330          |           |          | BAB       |          | BAB, CAC |
| 390          |           |          | BAB       | BAB      |          |
| 470          |           |          | BAB       | BAB, CAC | CAC      |
| 560          |           | BAB      | BAB       | BAB, CAC | CAC      |
| 680          | BAB       | BAB      | BAB, CAC  | BAB, CAC | CAC      |
| 820          | BAB       | BAB, CAC | BAB, CAC  |          | CAC      |
| 1,000        | BAB, CAC  | BAB, CAC | BAB, CAC  | CAC      | CAC      |
| 1,200        | CAC       | BAB, CAC |           |          |          |
| 1,500        | BAB, CAC  |          | CAC       |          |          |
| 1,800        |           | CAC      |           |          |          |
| 2,200        |           | CAC      |           |          |          |
| 2,700        | CAC       |          |           |          |          |

## Ratings for HEN Series

| U <sub>R</sub><br>Code | Rated<br>Capacitance<br>20°C, 120Hz | Max ESR<br>20°C,<br>100kHz | Rated Ripple<br>Current<br>105°C, 100kHz | Dissipation Factor<br>20°C, 120Hz | Leakage Current<br>20°C, 2min | Size<br>ΦD×L     | P/N              |
|------------------------|-------------------------------------|----------------------------|--|-----------------------------------|-------------------------------|------------------|------------------|
| (V)                    | (μF)                                | (mΩ)                       | (mArms)                                  | (%)                               | (μA)                          | (mm)             | -                |
| 2.5<br>0E              | 680                                 | 7                          | 5700                                     | 8                                 | 340.0                         | 8x11.5           | PCR0EEN681MBAB□□ |
|                        | 820                                 | 7                          | 6100                                     | 8                                 | 410.0                         | 8x11.5           | PCR0EEN821MBAB□□ |
|                        | 1000                                | 7                          | 6100                                     | 8                                 | 500.0                         | 8x11.5           | PCR0EEN102MBAB□□ |
|                        | 1500                                | 7                          | 6100                                     | 8                                 | 750.0                         | 8x11.5           | PCR0EEN152MBAB□□ |
|                        | 1.000                               | 6                          | 6640                                     | 8                                 | 500.0                         | 10x12.5          | PCR0EEN102MCAC□□ |
|                        | 1200                                | 6                          | 6640                                     | 8                                 | 600.0                         | 10x12.5          | PCR0EEN122MCAC□□ |
|                        | 1500                                | 7                          | 6100                                     | 8                                 | 750.0                         | 10x12.5          | PCR0EEN152MCAC□□ |
|                        | 2700                                | 7                          | 6100                                     | 8                                 | 1350.0                        | 10x12.5          | PCR0EEN272MCAC□□ |
| 4<br>0G                | 560                                 | 7                          | 6100                                     | 8                                 | 448.0                         | 8x11.5           | PCR0GEN561MBAB□□ |
|                        | 680                                 | 7                          | 6100                                     | 8                                 | 544.0                         | 8x11.5           | PCR0GEN681MBAB□□ |
|                        | 820                                 | 7                          | 6100                                     | 8                                 | 656.0                         | 8x11.5           | PCR0GEN821MBAB□□ |
|                        | 1000                                | 7                          | 6100                                     | 8                                 | 800.0                         | 8x11.5           | PCR0GEN102MBAB□□ |
|                        | 1200                                | 7                          | 6100                                     | 8                                 | 960.0                         | 8x11.5           | PCR0GEN122MBAB□□ |
|                        | 820                                 | 6                          | 6640                                     | 8                                 | 656.0                         | 10x12.5          | PCR0GEN821MCAC□□ |
|                        | 1000                                | 6                          | 6640                                     | 8                                 | 800.0                         | 10x12.5          | PCR0GEN102MCAC□□ |
|                        | 1200                                | 7                          | 6100                                     | 8                                 | 960.0                         | 10x12.5          | PCR0GEN122MCAC□□ |
|                        | 1800                                | 7                          | 6100                                     | 8                                 | 1440.0                        | 10x12.5          | PCR0GEN182MCAC□□ |
| 2200                   | 7                                   | 6100                       | 8  | 1760.0                            | 10x12.5                       | PCR0GEN222MCAC□□ |                  |
| 6.3<br>0J              | 330                                 | 7                          | 5700                                     | 8                                 | 415.8                         | 8x11.5           | PCR0JEN331MBAB□□ |
|                        | 390                                 | 7                          | 5700                                     | 8                                 | 491.4                         | 8x11.5           | PCR0JEN391MBAB□□ |
|                        | 470                                 | 7                          | 5700                                     | 8                                 | 592.2                         | 8x11.5           | PCR0JEN471MBAB□□ |
|                        | 560                                 | 7                          | 5700                                     | 8                                 | 705.6                         | 8x11.5           | PCR0JEN561MBAB□□ |
|                        | 680                                 | 7                          | 5700                                     | 8                                 | 856.8                         | 8x11.5           | PCR0JEN681MBAB□□ |
|                        | 820                                 | 7                          | 5700                                     | 8                                 | 1033.2                        | 8x11.5           | PCR0JEN821MBAB□□ |
|                        | 1000                                | 7                          | 5700                                     | 8                                 | 1260.0                        | 8x11.5           | PCR0JEN102MBAB□□ |
|                        | 1500                                | 7                          | 5700                                     | 8                                 | 1890.0                        | 8x11.5           | PCR0JEN152MBAB□□ |
|                        | 680                                 | 7                          | 6640                                     | 8                                 | 856.8                         | 10x12.5          | PCR0JEN681MCAC□□ |
|                        | 820                                 | 7                          | 6640                                     | 8                                 | 1033.2                        | 10x12.5          | PCR0JEN821MCAC□□ |
|                        | 1000                                | 7                          | 6100                                     | 8                                 | 1260.0                        | 10x12.5          | PCR0JEN102MCAC□□ |
|                        | 1500                                | 10                         | 5560                                     | 8                                 | 1890.0                        | 10x12.5          | PCR0JEN152MCAC□□ |
| 2200                   | 10                                  | 5560                       | 8  | 2772.0                            | 10x12.5                       | PCR0JEN222MCAC□□ |                  |
| 10<br>1A               | 270                                 | 8                          | 5650                                     | 8                                 | 540.0                         | 8x11.5           | PCR1AEN271MBAB□□ |
|                        | 390                                 | 8                          | 5650                                     | 8                                 | 780.0                         | 8x11.5           | PCR1AEN391MBAB□□ |
|                        | 470                                 | 8                          | 5650                                     | 8                                 | 940.0                         | 8x11.5           | PCR1AEN471MBAB□□ |
|                        | 560                                 | 8                          | 5650                                     | 8                                 | 1120.0                        | 8x11.5           | PCR1AEN561MBAB□□ |
|                        | 680                                 | 8                          | 5650                                     | 8                                 | 1360.0                        | 8x11.5           | PCR1AEN681MBAB□□ |
|                        | 470                                 | 7                          | 6100                                     | 8                                 | 940.0                         | 10x12.5          | PCR1AEN471MCAC□□ |
|                        | 560                                 | 7                          | 6100                                     | 8                                 | 1120.0                        | 10x12.5          | PCR1AEN561MCAC□□ |
|                        | 680                                 | 7                          | 6100                                     | 8                                 | 1360.0                        | 10x12.5          | PCR1AEN681MCAC□□ |
|                        | 1000                                | 8                          | 6100                                     | 8                                 | 2000.0                        | 10x12.5          | PCR1AEN102MCAC□□ |
| 16<br>1C               | 180                                 | 11                         | 5100                                     | 8                                 | 576.0                         | 8x11.5           | PCR1CEN181MBAB□□ |
|                        | 270                                 | 10                         | 5100                                     | 8                                 | 864.0                         | 8x11.5           | PCR1CEN271MBAB□□ |
|                        | 330                                 | 10                         | 5100                                     | 8                                 | 1056.0                        | 8x11.5           | PCR1CEN331MBAB□□ |
|                        | 330                                 | 10                         | 6100                                     | 8                                 | 1056.0                        | 10x12.5          | PCR1CEN331MC09□□ |
|                        | 470                                 | 10                         | 6100                                     | 8                                 | 1504.0                        | 10x12.5          | PCR1CEN471MCAC□□ |
|                        | 560                                 | 10                         | 6100                                     | 12                                | 1792.0                        | 10x12.5          | PCR1CEN561MCAC□□ |
|                        | 680                                 | 10                         | 6100                                     | 12                                | 2176.0                        | 10x12.5          | PCR1CEN681MCAC□□ |
|                        | 820                                 | 10                         | 6100                                     | 12                                | 2624.0                        | 10x12.5          | PCR1CEN821MCAC□□ |
| 1000                   | 10                                  | 6100                       | 12                                       | 3200.0                            | 10x12.5                       | PCR1CEN102MCAC□□ |                  |

Customer products are available on request.

### Frequency coefficient for ripple current

| Frequency   | 120Hz ≤ f < 1kHz | 1kHz ≤ f < 10kHz | 10kHz ≤ f < 100kHz | 100kHz ≤ f < 500kHz |
|-------------|------------------|------------------|--------------------|---------------------|
| Coefficient | 0.05             | 0.3              | 0.7                | 1                   |



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