

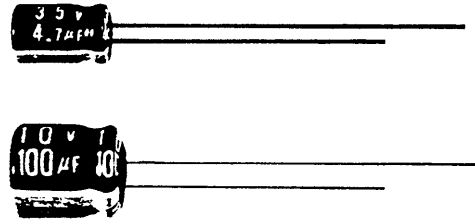
490 - 829 to 910

Rubycon

小形アルミニウム電解コンデンサ  
MINIATURE ALUMINUM ELECTROLYTIC CAPACITORS

MH7

高さ7mm, 105°C品 7mm Height, 105°C



◆規格表 SPECIFICATIONS

| 項目 Item  | 特性 Characteristics  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
|--|---|-------------------------------|--|------------------------------|---|-------------------------|--|----|------------------|------|------|------|------|------|------|------------------|---|---|---|---|---|---|
| 使用温度範囲<br>Operating Temperature Range                              | -40~+105°C  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 定格電圧範囲<br>Rated Voltage Range                                      | 6.3~50V.DC  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 静電容量許容差<br>Capacitance Tolerance                                   | ±20% (20°C, 120Hz)  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 漏れ電流<br>Leakage Current  | I=0.01CV又は3µAのいずれか大なる値以下 (定格電圧印加2分後)<br>I=0.01CV or 3µA whichever is greater (After 2 minutes' application of rated voltage)MAX<br>I=漏れ電流(µA) C=公称静電容量(µF) V=定格電圧(V)<br>Leakage Current Nominal Capacitance Rated Voltage   |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 損失角の正接 (tanδ)<br>Dissipation Factor                                | <table border="1"> <tr> <td>定格電圧(V)<br/>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>tanδ</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.10</td> </tr> </table> <p style="text-align: right;">MAX (20°C, 120Hz)</p>   | 定格電圧(V)<br>Rated Voltage      | 6.3  | 10                           | 16  | 25                      | 35   | 50 | tanδ             | 0.24 | 0.20 | 0.16 | 0.14 | 0.12 | 0.10 |                  |   |   |   |   |   |   |
| 定格電圧(V)<br>Rated Voltage   | 6.3   | 10                            | 16   | 25                           | 35  | 50                      |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| tanδ   | 0.24  | 0.20                          | 0.16   | 0.14                         | 0.12  | 0.10                    |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 高温負荷特性<br>Load Life  | <p>105°C, 1000時間定格電圧印加後、<br/>After applying rated voltage for 1000 hours at 105°C</p> <table border="1"> <tr> <td>静電容量変化率<br/>Capacitance Change</td> <td>初期値の±25%以内<br/>Within ±25% of the initial value</td> </tr> <tr> <td>損失角の正接<br/>Dissipation Factor</td> <td>規格値の200%以下<br/>Not more than 200% of the specified value</td> </tr> <tr> <td>漏れ電流<br/>Leakage Current</td> <td>規格値以下<br/>Not more than the specified value</td> </tr> </table> | 静電容量変化率<br>Capacitance Change | 初期値の±25%以内<br>Within ±25% of the initial value | 損失角の正接<br>Dissipation Factor | 規格値の200%以下<br>Not more than 200% of the specified value | 漏れ電流<br>Leakage Current | 規格値以下<br>Not more than the specified value |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 静電容量変化率<br>Capacitance Change                                      | 初期値の±25%以内<br>Within ±25% of the initial value  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 損失角の正接<br>Dissipation Factor                                       | 規格値の200%以下<br>Not more than 200% of the specified value   |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 漏れ電流<br>Leakage Current  | 規格値以下<br>Not more than the specified value  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 低温特性<br>Low Temperature Stability<br>(インピーダンス比)<br>Impedance Ratio | <table border="1"> <tr> <td>定格電圧(V)<br/>Rated Voltage</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>50</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> <td>3</td> <td>3</td> </tr> </table> <p style="text-align: right;">MAX (120Hz)</p>                                      | 定格電圧(V)<br>Rated Voltage      | 6.3  | 10                           | 16  | 25                      | 35   | 50 | Z(-25°C)/Z(20°C) | 3    | 2    | 2    | 2    | 2    | 2    | Z(-40°C)/Z(20°C) | 6 | 5 | 4 | 3 | 3 | 3 |
| 定格電圧(V)<br>Rated Voltage   | 6.3   | 10                            | 16   | 25                           | 35  | 50                      |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| Z(-25°C)/Z(20°C)   | 3   | 2                             | 2  | 2                            | 2   | 2                       |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| Z(-40°C)/Z(20°C)   | 6   | 5                             | 4  | 3                            | 3   | 3                       |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |
| 準拠規格<br>Reference Standard   | JIS C 5141  |                               |  |                              |   |                         |  |    |                  |      |      |      |      |      |      |                  |   |   |   |   |   |   |

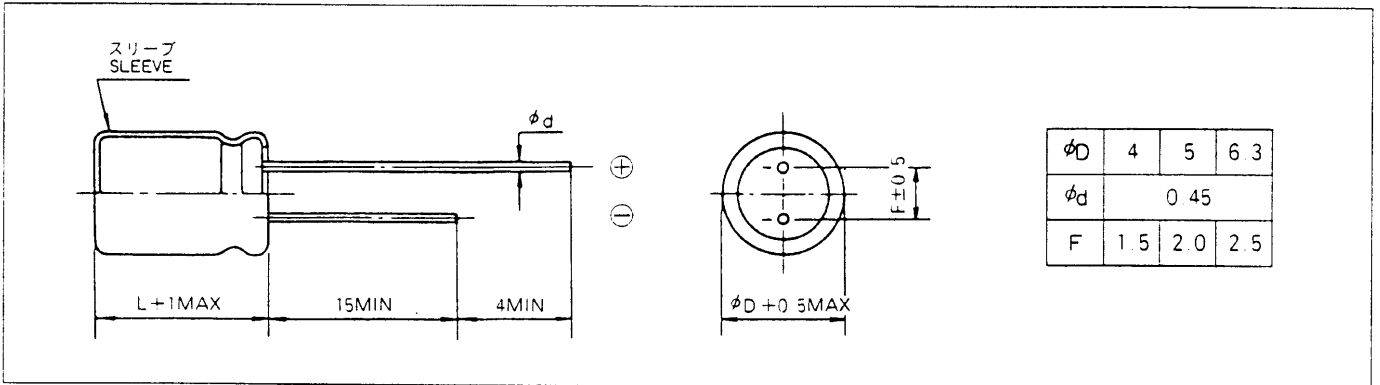
◆リップル電流補正係数 MULTIPLIER FOR RIPPLE CURRENT

周波数係数 Frequency coefficient

| Cap(µF) | Freq(Hz) |     |      |      |      |
|---------|----------|-----|------|------|------|
|         | 60(50)   | 120 | 500  | 1k   | ≥10k |
| 0.1~47  | 0.8      | 1.0 | 1.20 | 1.30 | 1.50 |
| 100     | 0.8      | 1.0 | 1.10 | 1.15 | 1.20 |

◆寸法図 DIMENSIONS

(mm)



◆寸法一覧表, 最大許容リップル電流一覧表 STANDARD SIZE, MAXIMUM PERMISSIBLE RIPPLE CURRENT

Size  $\phi D \times L$ (mm). Ripple Current (mA r m s / 105°C, 120Hz)

| 定格電圧<br>WV(V DC) | 6.3<br>(0J) |        | 10<br>(1A) |        | 16<br>(1C) |        | 25<br>(1E) |        | 35<br>(1V) |        | 50<br>(1H) |        |
|------------------|-------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|                  | Size        | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple |
| 0.1              |             |        |            |        |            |        |            |        |            |        | 4×7        | 1.0    |
| 0.22             |             |        |            |        |            |        |            |        |            |        | 4×7        | 2.3    |
| 0.33             |             |        |            |        |            |        |            |        |            |        | 4×7        | 3.5    |
| 0.47             |             |        |            |        |            |        |            |        |            |        | 4×7        | 5      |
| 1                |             |        |            |        |            |        |            |        |            |        | 4×7        | 10     |
| 2.2              |             |        |            |        |            |        |            |        |            |        | 4×7        | 19     |
| 3.3              |             |        |            |        |            |        |            |        |            |        | 4×7        | 24     |
| 4.7              |             |        |            |        |            |        |            |        | 4×7        | 24     | 5×7        | 29     |
| 10               |             |        |            |        | 4×7        | 29     | 5×7        | 33     | 5×7        | 36     | 6.3×7      | 44     |
| 22               | 4×7         | 34     | 5×7        | 38     | 5×7        | 44     | 6.3×7      | 51     | 6.3×7      | 60     |            |        |
| 33               | 5×7         | 42     | 5×7        | 47     | 6.3×7      | 60     | 6.3×7      | 65     |            |        |            |        |
| 47               | 5×7         | 50     | 6.3×7      | 65     | 6.3×7      | 70     |            |        |            |        |            |        |
| 100              | 6.3×7       | 77     | 6.3×7      | 87     |            |        |            |        |            |        |            |        |