

**AX SERIES**

◆FEATURES

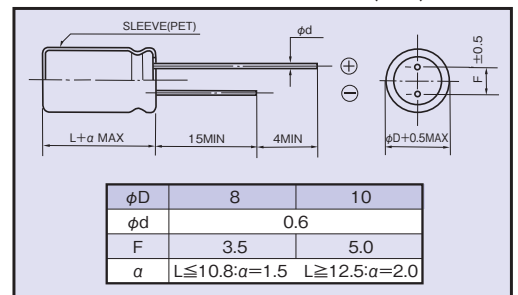
- Miniaturized for AC-adapter of portable device.
- Load Life : 105°C 1000 hours.
- RoHS compliance.



◆SPECIFICATIONS

| Items   | Characteristics   |                    |                                   |                    |  |                 |                                    |                  |    |  |
|---|---|--------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|------------------|----|--|
| Category Temperature Range                        | -40~+105°C  |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Rated Voltage Range                               | 400V.DC   |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Capacitance Tolerance                             | ±20%(20°C,120Hz)  |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Leakage Current(MAX)                              | I=0.04CV+100μA (After 1 minute application of rated voltage)<br>I=0.02CV+25μA (After 5 minutes application of rated voltage)<br>I=(μA)                      C=(μF)                      V=(V)<br>Leakage Current                      Rated Capacitance                      Rated Voltage  |                    |                                   |                    |  |                 |                                    |                  |    |  |
| (tanδ)<br>Dissipation Factor(MAX)                 | <table border="1"> <tr> <td>Rated Voltage</td> <td>400</td> <td>(20°C,120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.25</td> <td></td> </tr> </table>   | Rated Voltage      | 400                               | (20°C,120Hz)       | tanδ                                       | 0.25            |                                    |                  |    |  |
| Rated Voltage                                     | 400   | (20°C,120Hz)       |                                   |                    |  |                 |                                    |                  |    |  |
| tanδ  | 0.25  |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Endurance   | After applying rated voltage with rated ripple current for 1000 hours at 105°C, the capacitors shall meet the following requirement. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±25% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 200% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table> | Capacitance Change | Within ±25% of the initial value. | Dissipation Factor | Not more than 200% of the specified value. | Leakage Current | Not more than the specified value. |                  |    |  |
| Capacitance Change                                | Within ±25% of the initial value.   |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Dissipation Factor                                | Not more than 200% of the specified value.  |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Leakage Current                                   | Not more than the specified value.  |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Low Temperature Stability<br>Impedance Ratio(MAX) | <table border="1"> <tr> <td>Rated Voltage</td> <td>400</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>6</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>10</td> <td></td> </tr> </table>  | Rated Voltage      | 400                               | (120Hz)            | Z(-25°C)/Z(20°C)                           | 6               |                                    | Z(-40°C)/Z(20°C) | 10 |  |
| Rated Voltage                                     | 400   | (120Hz)            |                                   |                    |  |                 |                                    |                  |    |  |
| Z(-25°C)/Z(20°C)                                  | 6   |                    |                                   |                    |  |                 |                                    |                  |    |  |
| Z(-40°C)/Z(20°C)                                  | 10  |                    |                                   |                    |  |                 |                                    |                  |    |  |

◆DIMENSIONS



◆MULTIPLIER FOR RIPPLE CURRENT  
Frequency Coefficient

| (Hz)<br>Frequency        | 60(50) | 120  | 500  | 1k   | 10k≤ |
|--------------------------|--------|------|------|------|------|
| Coefficient<br>4.7~8.2μF | 0.65   | 1.00 | 1.20 | 1.30 | 1.50 |
| 10~15μF                  | 0.80   | 1.00 | 1.20 | 1.30 | 1.50 |

◆STANDARD SIZE Size φD×L(mm), Ripple Current (mA r.m.s./105°C, 120Hz)

| WV(V.DC)    | Cap(μF) | Size   | Rated Ripple Current |
|-------------|---------|--------|----------------------|
| 400<br>(2G) | 4.7     | 8×9    | 50                   |
|             | 6.8     | 8×10.8 | 70                   |
|             | 8.2     | 8×16   | 85                   |
|             | 8.2     | 10×9   | 85                   |

| WV(V.DC)    | Cap(μF) | Size    | Rated Ripple Current |
|-------------|---------|---------|----------------------|
| 400<br>(2G) | 10      | 10×12.5 | 100                  |
|             | 12      | 8×20    | 120                  |
|             | 15      | 10×16   | 150                  |

◆OPTION

|                    | 記号 Code  |
|--------------------|----------|
| PETスリーブ PET Sleeve | なし Blank |

◆PART NUMBER

|               |        |                   |                       |        |              |           |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□           | AX     | □□□               | M                     | □□□    | □□           | D×L       |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |