

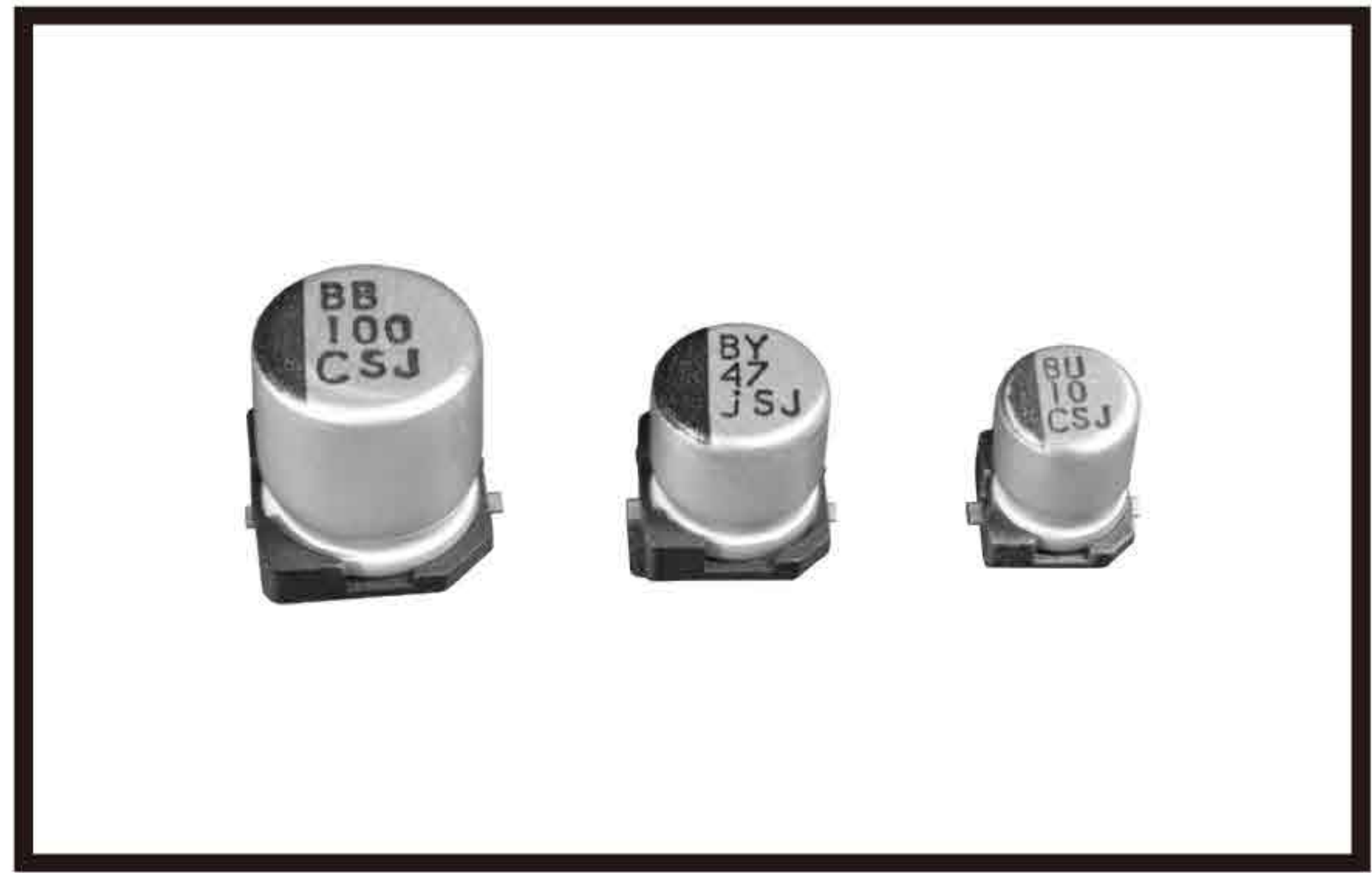
RVH SERIES

NEW

105°C Long Life, Lead Free Reflow Soldering.

◆ FEATURES

- Load Life : 105°C 3000 hours.
- Lead free reflow soldering is available.
- Available for high density mounting.



◆ SPECIFICATIONS

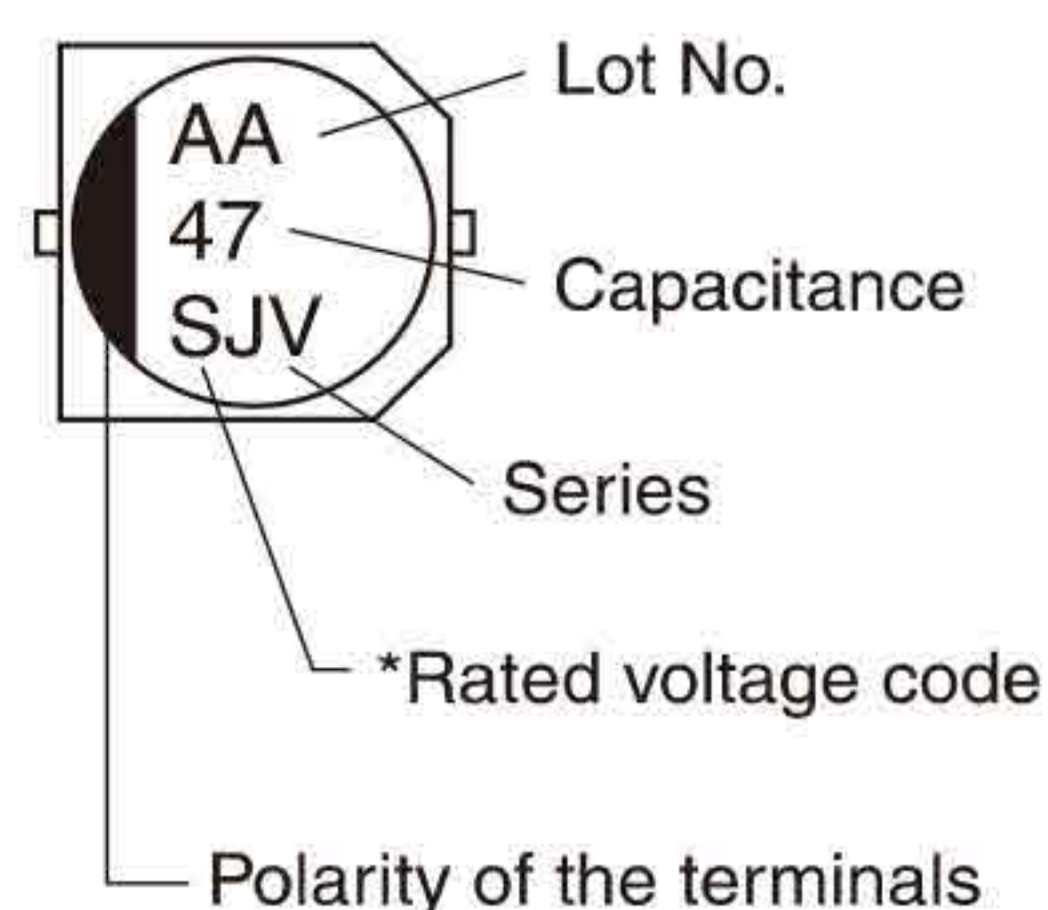
| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|----|---------|------------------|------|------|------|------|------|---|--|------------------|----|---|---|---|---|---|--|
| Category Temperature Range | -40~+105°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~50V.DC | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.01CV or 3μA whichever is greater. (After 2 minutes application of rated voltage) I=Leakage Current(μA) C=Rated Capacitance(μF) V=Rated Voltage(V) | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) | <table border="1"> <tr> <td>Rated Voltage (V)</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>0.30</td> <td>0.24</td> <td>0.20</td> <td>0.16</td> <td>0.14</td> <td>0.14</td> </tr> </table> | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | tanδ | 0.30 | 0.24 | 0.20 | 0.16 | 0.14 | 0.14 | | | | | | | | | | |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | | | | | | | | | | | | | | | | | | | |
| tanδ | 0.30 | 0.24 | 0.20 | 0.16 | 0.14 | 0.14 | | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 3000 hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±30% of the initial value.</td> </tr> <tr> <td>Dissipation Factor</td> <td>Not more than 300% of the specified value.</td> </tr> <tr> <td>Leakage Current</td> <td>Not more than the specified value.</td> </tr> </table> | Capacitance Change | Within ±30% of the initial value. | Dissipation Factor | Not more than 300% of the specified value. | Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | |
| Capacitance Change | Within ±30% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor | Not more than 300% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current | Not more than the specified value. | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <tr> <td>Rated Voltage (V)</td> <td>6.3</td> <td>10</td> <td>16</td> <td>25</td> <td>35</td> <td>35</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>8</td> <td>6</td> <td>4</td> <td>3</td> <td>3</td> <td></td> </tr> </table> | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 35 | (120Hz) | Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | | Z(-40°C)/Z(20°C) | 12 | 8 | 6 | 4 | 3 | 3 | |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 35 | (120Hz) | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 4 | 3 | 2 | 2 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 12 | 8 | 6 | 4 | 3 | 3 | | | | | | | | | | | | | | | | | | | |

◆ MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k≦ |
|----------------|--------|------|------|------|------|
| 0.1~1μF | 0.50 | 1.00 | 1.20 | 1.30 | 1.50 |
| 2.2~4.7μF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| 10~47μF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| 100~220μF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |

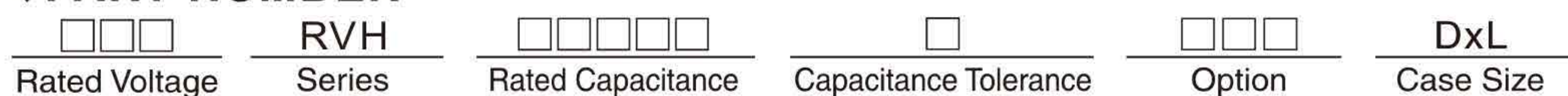
◆ MARKING



*Voltage Code

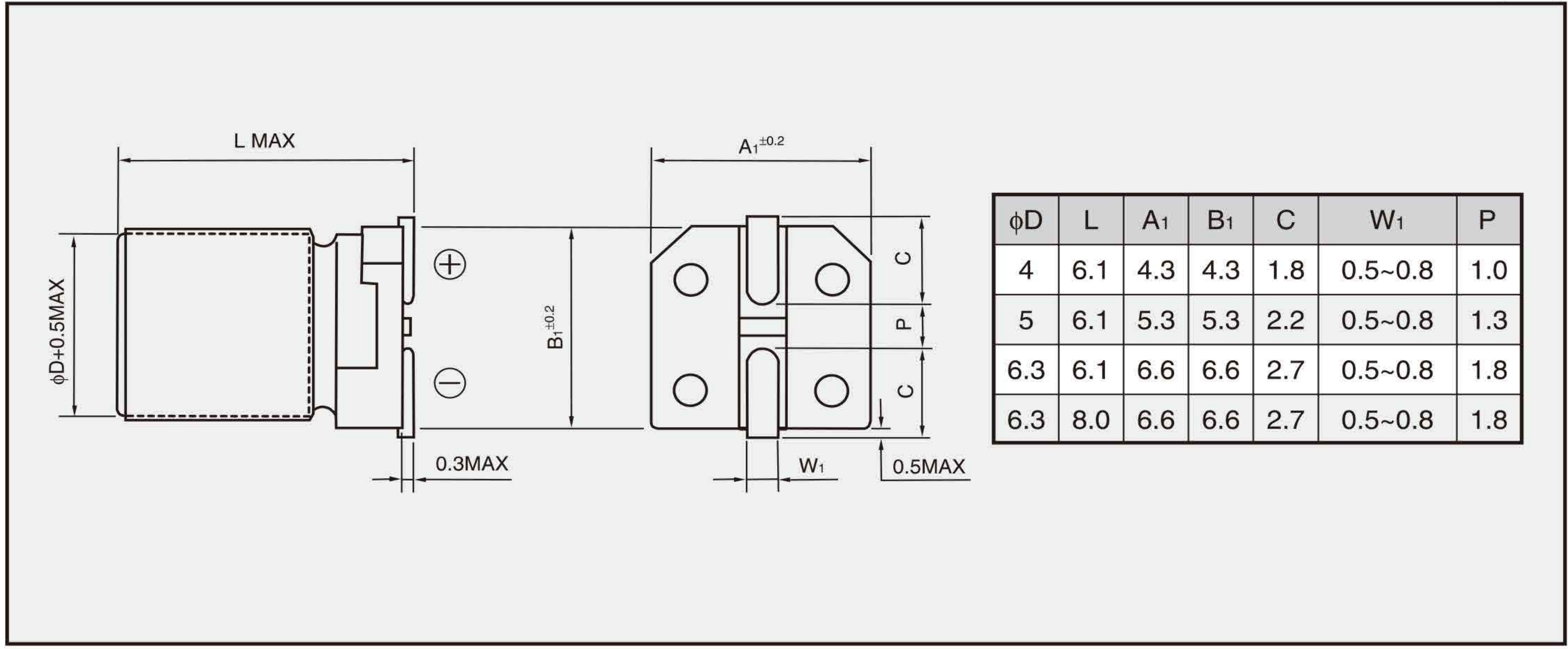
| | | | | | | |
|--------------------|-----|----|----|----|----|----|
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 |
| Rated Voltage code | j | A | C | E | V | H |

◆ PART NUMBER



◆ DIMENSIONS

(mm)



◆ STANDARD SIZE, RATED RIPPLE CURRENT

Size φDxL(mm), Ripple Current (mA r.m.s./105°C, 120Hz)

| WV(V.DC) Cap(μF) | 6.3 (0J) | | 10 (1A) | | 16 (1C) | | 25 (1E) | | 35 (1V) | | 50 (1H) | |
|---------------------|-------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
| | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 0.1 | | | | | | | | | | | 4X6.1 | 1.0 |
| 0.22 | | | | | | | | | | | 4X6.1 | 2.6 |
| 0.33 | | | | | | | | | | | 4X6.1 | 3.2 |
| 0.47 | | | | | | | | | | | 4X6.1 | 4 |
| 1 | | | | | | | | | | | 4X6.1 | 8 |
| 2.2 | | | | | | | | | | | 4X6.1 | 11 |
| 3.3 | | | | | | | | | | | 4X6.1 | 14 |
| 4.7 | | | | | | | | | 4X6.1 | 16 | 5X6.1 | 19 |
| 10 | | | | | 4X6.1 | 18 | | | 5X6.1 | 27 | 6.3X6.1 | 32 |
| 22 | 4X6.1 | 22 | | | 5X6.1 | 30 | | | 6.3X6.1 | 44 | 6.3X8.0 | 58 |
| 33 | | | 5X6.1 | 35 | | | 6.3X6.1 | 50 | 6.3X8.0 | 57 | | |
| 47 | 5X6.1 | 38 | | | 6.3X6.1 | 50 | 6.3X8.0 | 63 | | | | |
| 100 | 6.3X6.1 | 69 | | | 6.3X8.0 | 81 | | | | | | |
| 220 | 6.3X8.0 | 120 | | | | | | | | | | |