

**TXW SERIES**
**NEW**
**◆FEATURES**

- Load Life : 105°C 10000 hours.
- Body diameter of  $\phi$  12.5mm to  $\phi$  18mm with high ripple current capability.
- Smaller size than the current VXW series.
- RoHS compliance.


**◆SPECIFICATIONS**

| Items  | Characteristics  |                   |         |                    |  |                    |  |                 |                                    |
|--|--|-------------------|---------|--------------------|--|--------------------|--|-----------------|------------------------------------|
| Category Temperature Range                   | -25~+105°C   |                   |         |                    |  |                    |  |                 |                                    |
| Rated Voltage Range                          | 200~450V.DC  |                   |         |                    |  |                    |  |                 |                                    |
| Capacitance Tolerance                        | ±20% (20°C, 120Hz)   |                   |         |                    |  |                    |  |                 |                                    |
| Leakage Current(MAX)                         | $I=3\sqrt{CV}$ (After 5 minutes application of rated voltage)<br>$I$ =Leakage Current( $\mu$ A) $C$ =Rated Capacitance( $\mu$ F) $V$ =Rated Voltage(V)   |                   |         |                    |  |                    |  |                 |                                    |
| Dissipation Factor(MAX)<br>( $\tan \delta$ ) | <table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200~400</td> <td>420~450</td> </tr> <tr> <td><math>\tan \delta</math></td> <td>0.2</td> <td>0.25</td> </tr> </table>  | Rated Voltage (V) | 200~400 | 420~450            | $\tan \delta$                              | 0.2                | 0.25                                       | (20°C, 120Hz)   |                                    |
| Rated Voltage (V)                            | 200~400  | 420~450           |         |                    |  |                    |  |                 |                                    |
| $\tan \delta$                                | 0.2  | 0.25              |         |                    |  |                    |  |                 |                                    |
| Endurance                                    | After applying rated voltage with rated ripple current for 10000hrs at 105°C, the capacitors shall meet the following requirements. <table border="1"> <tr> <td>Capacitance Change</td> <td>Within ±20% 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 ±20% 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 ±20% of the initial value.  |                   |         |                    |  |                    |  |                 |                                    |
| Dissipation Factor                           | Not more than 200% of the specified value.   |                   |         |                    |  |                    |  |                 |                                    |
| Leakage Current                              | Not more than the specified value.   |                   |         |                    |  |                    |  |                 |                                    |
| Impedance Ratio(MAX)                         | <table border="1"> <tr> <td>Rated Voltage (V)</td> <td>200~250</td> <td>400~450</td> </tr> <tr> <td><math>Z(-25^\circ\text{C})/Z(20^\circ\text{C})</math></td> <td>3</td> <td>8</td> </tr> </table>  | Rated Voltage (V) | 200~250 | 400~450            | $Z(-25^\circ\text{C})/Z(20^\circ\text{C})$ | 3                  | 8  | (120Hz)         |                                    |
| Rated Voltage (V)                            | 200~250  | 400~450           |         |                    |  |                    |  |                 |                                    |
| $Z(-25^\circ\text{C})/Z(20^\circ\text{C})$   | 3  | 8                 |         |                    |  |                    |  |                 |                                    |

**◆MULTIPLIER FOR RIPPLE CURRENT**

Frequency coefficient

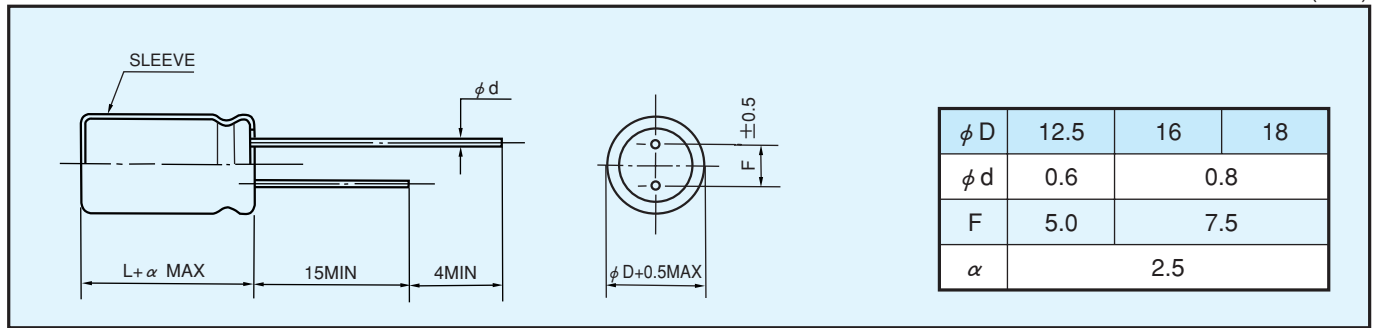
| Frequency (Hz) | 60 (50) | 120 | 500  | 1k   | 10k $\leq$ |
|----------------|---------|-----|------|------|------------|
| 200~250WV      | 0.8     | 1.0 | 1.20 | 1.30 | 1.40       |
| 400~450WV      | 0.8     | 1.0 | 1.25 | 1.40 | 1.50       |

**◆PART NUMBER**

|               |        |                   |                       |        |              |           |
|---------------|--------|-------------------|-----------------------|--------|--------------|-----------|
| □□□           | TXW    | □□□□□             | □                     | □□□    | □□           | DXL       |
| Rated Voltage | Series | Rated Capacitance | Capacitance Tolerance | Option | Lead Forming | Case Size |

**◆ DIMENSIONS**

(mm)



**◆ STANDARD SIZE, RATED RIPPLE CURRENT**

| Cap<br>( $\mu F$ ) | WV<br>$\phi D$ | 200         |      |           |      | 220         |      |           |      |           |      |
|--------------------|----------------|-------------|------|-----------|------|-------------|------|-----------|------|-----------|------|
|                    |                | $\phi 12.5$ |      | $\phi 16$ |      | $\phi 12.5$ |      | $\phi 16$ |      | $\phi 18$ |      |
| 100                |                |             |      |           |      |             |      |           |      |           |      |
| 120                |                |             |      |           |      | 12.5×30     | 0.74 |           |      |           |      |
| 150                |                | 12.5×30     | 0.80 |           |      | 12.5×35     | 0.86 | 16×25     | 0.80 |           |      |
| 180                |                | 12.5×35     | 0.92 | 16×25     | 0.85 |             |      | 16×30     | 0.94 |           |      |
| 220                |                |             |      | 16×30     | 1.01 | 18×25       | 1.00 | 16×30     | 1.01 | 18×25     | 0.94 |
| 270                |                |             |      | 16×35     | 1.18 | 18×30       | 1.16 | 16×35     | 1.19 | 18×30     | 1.13 |
| 330                |                |             |      | 16×40     | 1.31 | 18×30       | 1.30 |           |      | 18×35     | 1.30 |
| 390                |                |             |      |           |      | 18×35       | 1.43 |           |      | 18×40     | 1.49 |
| 470                |                |             |      |           |      | 18×40       | 1.58 |           |      | 18×45     | 1.69 |
| 560                |                |             |      |           |      | 18×45       | 1.77 |           |      |           |      |

| Cap<br>( $\mu F$ ) | WV<br>$\phi D$ | 250         |      |           |      | 400         |      |           |      |           |      |
|--------------------|----------------|-------------|------|-----------|------|-------------|------|-----------|------|-----------|------|
|                    |                | $\phi 12.5$ |      | $\phi 16$ |      | $\phi 12.5$ |      | $\phi 16$ |      | $\phi 18$ |      |
| 47                 |                |             |      |           |      | 12.5×30     | 0.44 |           |      |           |      |
| 56                 |                |             |      |           |      | 12.5×35     | 0.50 |           |      |           |      |
| 68                 |                |             |      |           |      | 12.5×40     | 0.58 | 16×25     | 0.51 |           |      |
| 82                 |                |             |      |           |      |             |      | 16×30     | 0.61 | 18×25     | 0.61 |
| 100                |                | 12.5×30     | 0.69 |           |      |             |      | 16×35     | 0.74 | 18×30     | 0.74 |
| 120                |                | 12.5×35     | 0.79 | 16×25     | 0.74 |             |      | 16×40     | 0.80 | 18×35     | 0.79 |
| 150                |                | 12.5×40     | 0.92 | 16×30     | 0.89 |             |      |           |      | 18×40     | 0.91 |
| 180                |                |             |      | 16×30     | 0.95 | 18×25       | 0.88 |           |      | 18×45     | 1.04 |
| 220                |                |             |      | 16×35     | 1.11 | 18×30       | 1.10 |           |      |           |      |
| 270                |                |             |      | 16×40     | 1.27 | 18×35       | 1.23 |           |      |           |      |
| 330                |                |             |      |           |      | 18×40       | 1.42 |           |      |           |      |
| 390                |                |             |      |           |      | 18×45       | 1.59 |           |      |           |      |

| Cap<br>( $\mu F$ ) | WV<br>$\phi D$ | 420         |      |           |      | 450         |      |           |      |           |      |
|--------------------|----------------|-------------|------|-----------|------|-------------|------|-----------|------|-----------|------|
|                    |                | $\phi 12.5$ |      | $\phi 16$ |      | $\phi 12.5$ |      | $\phi 16$ |      | $\phi 18$ |      |
| 33                 |                |             |      |           |      | 12.5×30     | 0.37 |           |      |           |      |
| 39                 |                | 12.5×30     | 0.39 |           |      | 12.5×35     | 0.42 |           |      |           |      |
| 47                 |                | 12.5×35     | 0.45 |           |      | 12.5×40     | 0.48 | 16×25     | 0.44 |           |      |
| 56                 |                | 12.5×40     | 0.52 | 16×25     | 0.46 |             |      | 16×30     | 0.51 |           |      |
| 68                 |                |             |      | 16×30     | 0.55 |             |      | 16×35     | 0.59 | 18×25     | 0.57 |
| 82                 |                |             |      | 16×35     | 0.63 | 18×25       | 0.56 | 16×40     | 0.68 | 18×30     | 0.65 |
| 100                |                |             |      | 16×40     | 0.73 | 18×30       | 0.67 |           |      | 18×35     | 0.74 |
| 120                |                |             |      |           |      | 18×35       | 0.77 |           |      | 18×40     | 0.83 |
| 150                |                |             |      |           |      | 18×40       | 0.90 |           |      | 18×45     | 0.95 |

Please check with us about individual WV, Cap., size and dimensions.

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