

NW5 SERIES

Bi-polar, 5mm Height

◆FEATURES

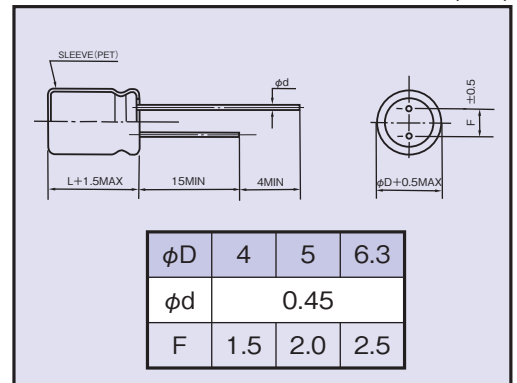
•RoHS compliance.



◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--------------------|-----------------------------------|--------------------|--|-----------------|------------------------------------|----|---------------|------------------|------|------|------|------|------|------|--|------------------|----|----|---|---|---|---|--|
| Category Temperature Range | -40~+85°C | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~50V.DC | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20% (20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | I=0.05CV or 10μA whichever is greater. (After 5 minutes application of rated voltage) I=Leakage Current(μA) C=Capacitance(μF) V=Rated Voltage(V) | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <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> <td>(20°C, 120Hz)</td> </tr> <tr> <td>tanδ</td> <td>0.26</td> <td>0.22</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td></td> </tr> </table> | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | (20°C, 120Hz) | tanδ | 0.26 | 0.22 | 0.20 | 0.20 | 0.20 | 0.20 | | | | | | | | | |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | (20°C, 120Hz) | | | | | | | | | | | | | | | | | | |
| tanδ | 0.26 | 0.22 | 0.20 | 0.20 | 0.20 | 0.20 | | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 1000hrs at 85°C, (The polarity shall be reversed every 500hrs.), the capacitors shall meet the following requirements. <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 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>50</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>6</td> <td>4</td> <td>4</td> <td>3</td> <td>2</td> <td>2</td> <td></td> </tr> <tr> <td>Z(-40°C)/Z(20°C)</td> <td>12</td> <td>10</td> <td>8</td> <td>6</td> <td>4</td> <td>4</td> <td></td> </tr> </table> | Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | (120Hz) | Z(-25°C)/Z(20°C) | 6 | 4 | 4 | 3 | 2 | 2 | | Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 6 | 4 | 4 | |
| Rated Voltage (V) | 6.3 | 10 | 16 | 25 | 35 | 50 | (120Hz) | | | | | | | | | | | | | | | | | | |
| Z(-25°C)/Z(20°C) | 6 | 4 | 4 | 3 | 2 | 2 | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 6 | 4 | 4 | | | | | | | | | | | | | | | | | | | |

◆DIMENSIONS (mm)



◆MULTIPLIER FOR RIPPLE CURRENT

Frequency coefficient

| Frequency (Hz) | 60(50) | 120 | 500 | 1k | 10k≤ | |
|----------------|-----------|------|------|------|------|------|
| Coefficient | 0.33~1μF | 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 |

◆OPTION

| | Code |
|------------|------|
| PET Sleeve | EFC |

◆STANDARD SIZE

Size φD×L(mm), Ripple Current (mA r.m.s./85°C, 120Hz)

| WV (V.DC) | Cap (μF) | Size (φD×L) | Rated Ripple Current |
|-----------|----------|-------------|----------------------|
| 6.3 (0J) | 10 | 4×5 | 14 |
| | 22 | 5×5 | 25 |
| | 33 | 6.3×5 | 35 |
| | 47 | 6.3×5 | 40 |
| 10 (1A) | 10 | 5×5 | 18 |
| | 22 | 6.3×5 | 30 |
| | 33 | 6.3×5 | 37 |
| 16 (1C) | 4.7 | 4×5 | 12 |
| | 10 | 5×5 | 20 |
| | 22 | 6.3×5 | 32 |

| WV (V.DC) | Cap (μF) | Size (φD×L) | Rated Ripple Current |
|-----------|----------|-------------|----------------------|
| 25 (1E) | 3.3 | 5×5 | 10 |
| | 4.7 | 5×5 | 13 |
| | 10 | 6.3×5 | 21 |
| | 35 (1V) | 2.2 | 4×5 |
| 3.3 | | 5×5 | 11 |
| 4.7 | | 5×5 | 14 |
| 10 | | 6.3×5 | 24 |

| WV (V.DC) | Cap (μF) | Size (φD×L) | Rated Ripple Current |
|-----------|----------|-------------|----------------------|
| 50 (1H) | 0.33 | 4×5 | 2 |
| | 0.47 | 4×5 | 3 |
| | 1 | 4×5 | 5 |
| | 2.2 | 5×5 | 10 |

◆PART NUMBER

NW5 M D×L
 Rated Voltage Series Rated Capacitance Capacitance Tolerance Option Lead Forming Case Size