

WA SERIES
85°C 9mm~25mm Height

*Load Life : 85°C 2000 hours.

 RoHS
compliance

◆SPECIFICATIONS

| Items | Characteristics | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|-----------------------------------------------------------------|------|------|------|------|------|------|------|------|---------------------|---------------------|-----|----|----|----|----|-----|-----|-----|-----|-----|-----|------|------------------|------|------|------|------|------|------|------|------|------|------|------|---|------------------|----|----|---|---|---|---|---|---|---|---|---|---|
| Category Temperature Range | -40~+85°C | -25~+85°C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Rated Voltage Range | 6.3~250Vdc | 350~450Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Capacitance Tolerance | ±20%(20°C, 120Hz) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Leakage Current(MAX) | 6.3~50Vdc | 160~450Vdc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | I=0.01CV or 3µA whichever is greater. (After 2 minutes application of rated voltage) | CV≤1000 I=0.1CV+40µA (1minute) I=0.03CV+15µA (5minutes) | CV>1000 I=0.04CV+100µA (1minute) I=0.02CV+25µA (5minutes) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | I=Leakage Current(µA) C=Capacitance(µF) V=Rated Voltage(Vdc) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Dissipation Factor(MAX) (tanδ) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <tr> <td>tanδ</td> <td>0.26</td> <td>0.22</td> <td>0.18</td> <td>0.16</td> <td>0.14</td> <td>0.12</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> <td>0.20</td> </tr> </tbody> </table> (20°C, 120Hz) | | | | | | | | | | | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | tanδ | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | | | | | | | | | | | | | | |
| | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| tanδ | 0.26 | 0.22 | 0.18 | 0.16 | 0.14 | 0.12 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | 0.20 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| When capacitance is over 1000µF, tanδ shall be added 0.02 to the listed value with increase of every 1000µF. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Endurance | After applying rated voltage with rated ripple current for 2000 hours at 85°C, the capacitors shall meet the following requirements. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Capacitance Change | Within ±25% of the initial value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Dissipation Factor | Not more than 200% of the specified value. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Low Temperature Stability Impedance Ratio(MAX) | <table border="1"> <thead> <tr> <th>Rated Voltage (Vdc)</th> <th>6.3</th> <th>10</th> <th>16</th> <th>25</th> <th>35</th> <th>50</th> <th>160</th> <th>200</th> <th>250</th> <th>350</th> <th>400</th> <th>450</th> </tr> </thead> <tbody> <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>3</td> <td>3</td> <td>3</td> <td>5</td> <td>5</td> <td>7</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>3</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </tbody> </table> (120Hz) | | | | | | | | | | | | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | Z(-25°C)/Z(20°C) | 6 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 5 | 5 | 7 | Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 6 | 4 | 3 | - | - | - | - | - | - |
| | Rated Voltage (Vdc) | 6.3 | 10 | 16 | 25 | 35 | 50 | 160 | 200 | 250 | 350 | 400 | 450 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Z(-25°C)/Z(20°C) | 6 | 4 | 4 | 3 | 2 | 2 | 3 | 3 | 3 | 5 | 5 | 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Z(-40°C)/Z(20°C) | 12 | 10 | 8 | 6 | 4 | 3 | - | - | - | - | - | - | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

◆MULTIPLIER FOR RIPPLE CURRENT

| Frequency (Hz) | | 60(50) | 120 | 500 | 1k | 10k≤ |
|----------------|--------------|--------|------|------|------|------|
| Coefficient | 1.5~6.8µF | 0.65 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 10~68µF | 0.80 | 1.00 | 1.20 | 1.30 | 1.50 |
| | 100~1000µF | 0.80 | 1.00 | 1.10 | 1.15 | 1.20 |
| | 2200~10000µF | 0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

◆OPTION

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

◆PART NUMBER

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

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[450WA2R2MEFC10X9](#) [450WA47MEFC18X25](#) [450WA6R8MEFC12.5X16](#) [50WA1000MEFC16X20](#)
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[160WA33MEFC12.5X16](#)

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