

# Type WBR 85 °C, Industrial Grade, Axial Leaded, Aluminum

## 85 °C, Industrial Grade



Type WBR capacitors are the preferred choice for many varied industrial applications because they have high capacitance and extended life characteristics. The rugged construction delivers the high vibration resistance required in industrial applications

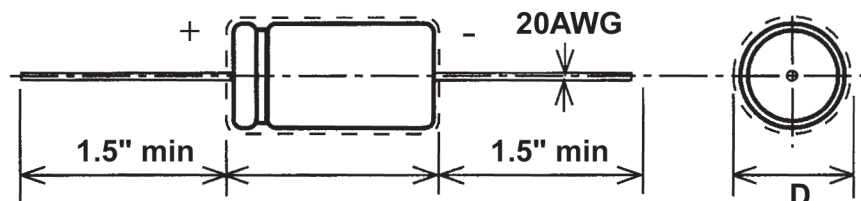
### Highlights

- High capacitance
- Extended life
- Rugged construction
- High vibration resistance

### Specifications

Temperature Range	-40 °C +85°C																																						
Rated Voltage Range	16 to 450 Vdc																																						
Capacitance Range	1.0 to 5,000 µF																																						
Capacitance Tolerance	16 to 50 Vdc -10 + 150%, 75 to 350 Vdc -10 + 100%, 450 Vdc -10 + 50%																																						
Leakage Current	16-75 Vdc ≤ 0.01CV + 10 µA 150-450 Vdc ≤ 0.03CV + 20 µA																																						
Ripple Current Multipliers	Ambient Temperature <table border="1"> <thead> <tr> <th>45 °C</th> <th>55 °C</th> <th>65 °C</th> <th>75 °C</th> <th>85 °C</th> <th>95 °C</th> <th>105 °C</th> </tr> </thead> <tbody> <tr> <td>1.50</td> <td>1.46</td> <td>1.32</td> <td>1.17</td> <td>1.00</td> <td>0.79</td> <td>0.50</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Frequency</th> <th>60 Hz</th> <th>120 Hz</th> <th>400 Hz</th> <th>1000 Hz</th> <th>10 kHz</th> <th>50 kHz</th> <th>100 kHz</th> </tr> </thead> <tbody> <tr> <td>0-60 Vdc</td> <td>0.85</td> <td>1.00</td> <td>1.10</td> <td>1.15</td> <td>1.15</td> <td>1.15</td> <td>1.15</td> </tr> <tr> <td>61-200 Vdc</td> <td>0.83</td> <td>1.00</td> <td>1.15</td> <td>1.20</td> <td>1.20</td> <td>1.20</td> <td>1.20</td> </tr> </tbody> </table>	45 °C	55 °C	65 °C	75 °C	85 °C	95 °C	105 °C	1.50	1.46	1.32	1.17	1.00	0.79	0.50	Frequency	60 Hz	120 Hz	400 Hz	1000 Hz	10 kHz	50 kHz	100 kHz	0-60 Vdc	0.85	1.00	1.10	1.15	1.15	1.15	1.15	61-200 Vdc	0.83	1.00	1.15	1.20	1.20	1.20	1.20
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Load Life	2,000 h @ +85 °C Δ Capacitance ±20% Δ ESR 150% of limit Δ DCL 100% of limit																																						
Shelf Life	500 h @ +85 °C Δ Capacitance ±20% Δ ESR 150% of limit Δ DCL 100% of limit																																						
Vibration	10 to 55 Hz; 0.06" and 10 g max, 2 h in each plane																																						
<a href="#">RoHS Compliant</a>																																							

### Outline Drawing





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