



**THE DATASHEET OF
WBR5-450A**



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

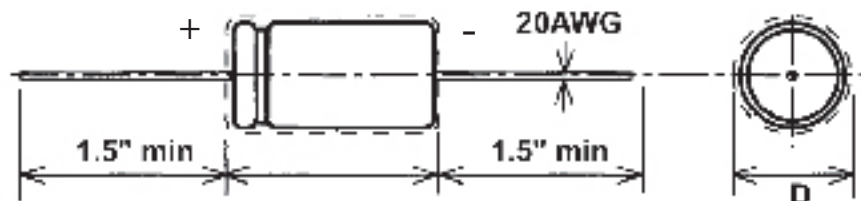
Highlights

- 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 μ F																																						
Capacitance Tolerance	16 to 50 Vdc -10 + 150%, 75 to 350 Vdc -10 + 100%, 450 Vdc -10 + 50%																																						
Leakage Current	16-75 Vdc \leq 0.01CV + 10 μ A 150-450 Vdc \leq 0.03CV + 20 μ A																																						
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
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																																
Load Life	2,000 h @ +105 °C Δ Capacitance \pm 20% Δ ESR 150% of limit Δ DCL 100% of limit																																						
Shelf Life	500 h @ 105 °C Δ Capacitance \pm 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																																						
RoHS Compliant																																							

Outline Drawing



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

Notice and Disclaimer: All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- ⊖ [View WBR5-450A on WIN SOURCE](#)
- ⊖ [Cornell Dubilier Electronics \(CDE\) Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management