

# 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

### RoHS Compliant

### Specifications

<b>Capacitance Range:</b>	1.0 to 5,000 $\mu$ F
<b>Voltage Range:</b>	16 to 450 Vdc
<b>Capacitance Tolerance:</b>	16 to 50 Vdc -10 + 150%, 75 to 350 Vdc -10 + 100%, 450 Vdc -10 + 50%
<b>Operating Temperature Range:</b>	-40 °C +85°C
<b>Leakage Current:</b>	16-75 Vdc $\leq$ 0.01CV + 10 $\mu$ A 150-450 Vdc $\leq$ 0.03CV + 20 $\mu$ A
<b>Ripple Current Multipliers:</b>	<b>Ambient Temperature</b>

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

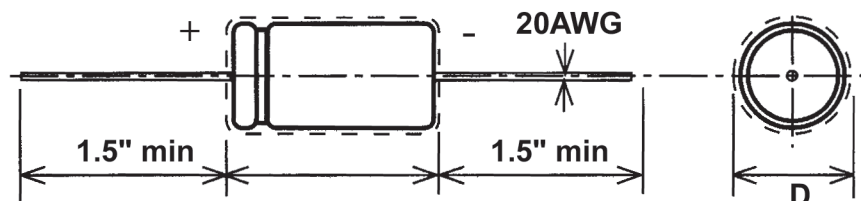
Frequency	60 Hz	120 Hz	400 Hz	1000 Hz	10 kHz	50 kHz	100 kHz
0-60 Vdc	0.85	1.00	1.10	1.15	1.15	1.15	1.15
61-200 Vdc	0.83	1.00	1.15	1.20	1.20	1.20	1.20
201-450 Vdc	0.80	1.00	1.15	1.30	1.30	1.30	1.30

**Load Life:** 2,000 h @ +85 °C  
 $\Delta$  Capacitance  $\pm$ 20%  
 $\Delta$  ESR 150% of limit  
 $\Delta$  DCL 100% of limit

**Shelf Life:** 500 h @ 85 °C  
 $\Delta$  Capacitance  $\pm$ 20%  
 $\Delta$  ESR 150% of limit  
 $\Delta$  DCL 100% of limit

**Vibration:** 10 to 55 Hz; 0.06" and 10 g max, 2 h in each plane

### Outline Drawing





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