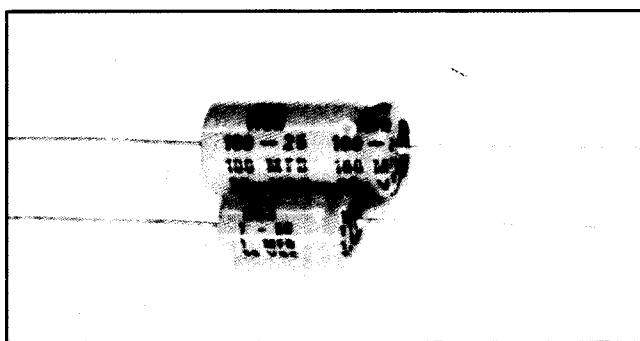


Industrial Grade, 85°C Type WBR



High capacitance and extended life characteristics make Type WBR a preferred choice for many varied applications. An all-welded construction gives this type its high vibration resistance often demanded in industrial applications.

Performance Highlights:

- Capacitance 1.0 uF to 10,000 uF
- Voltage 16 Vdc to 500 Vdc
- Operating Temperature
 - 16-450V: -40°C to 85°C
 - 500V: -40°C to 65°C
- Vibration 10g
- 2000 hours load life test at 85°C
- Capacitance tolerance
 - 16-50V: -10% + 150%
 - 75-350V: -10% + 100%
 - 450-500V: -10% + 50%
- Leakage Current ≤ 0.01 CV uA

Ratings:

Capacitance uF	ESR max ohms, 120Hz	ripple, amps 120Hz, 85°C	Nominal Case Size D x L (inches)	Catalog Number	Case Code
16 Vdc — 20 Vdc Surge					
100	5.3	0.057	5/16 x 3/4	WBR100-16	CC
250	2.1	0.118	3/8 x 1	WBR250-16	DE
500	1.1	0.270	1/2 x 1 1/8	WBR500-16	EG
1000	0.53	0.420	5/8 x 1 1/8	WBR1000-16	FJ
2000	0.27	0.660	3/4 x 2	WBR2000-16	GK
3000	0.18	0.820	3/4 x 2 1/2	WBR3000-16	GN
4000	0.13	1.000	7/8 x 2 1/2	WBR4000-16	HN
5000	0.11	1.200	1 x 2 1/2	WBR5000-16	JL
10000	0.08	2.700	1 1/8 x 3 1/2	WBR10000-16	KU
25 Vdc — 30 Vdc Surge					
10	48	0.018	1/4 x 1/2	WBR10-25	BA
25	19	0.031	5/16 x 3/8	WBR25-25	CB
50	9.5	0.044	5/16 x 3/4	WBR50-25	CC
100	4.8	0.074	3/8 x 3/4	WBR100-25	DC
250	1.8	0.155	1/2 x 1 1/8	WBR250-25	EG
500	0.95	0.280	5/8 x 1 1/8	WBR500-25	EG
1000	0.48	0.450	3/4 x 1 1/8	WBR1000-25	GJ
2000	0.23	0.720	3/4 x 2 1/2	WBR2000-25	GN
35 Vdc — 40 Vdc Surge					
100	4.4	.086	3/8 x 1	WBR100-35	DE
150	2.95	.114	1/2 x 1	WBR150-35	EE
300	1.45	.195	5/8 x 1	WBR300-35	FE
500	0.87	.285	3/8 x 1 1/8	WBR500-35	FG
1000	0.44	.450	3/4 x 1 1/8	WBR1000-35	GJ
2000	0.22	.910	7/8 x 2 1/2	WBR2000-35	HN
3000	0.15	1.150	1 x 2 1/2	WBR3000-35	JN
5500	0.11	1.950	1 1/8 x 3 1/2	WBR5500-35	KU
50 Vdc — 65 Vdc Surge					
1	390	0.010	1/4 x 1/2	WBR1-50	BA
2	195	0.012	1/4 x 1/2	WBR2-50	BA
5	77	0.014	1/4 x 1/2	WBR5-50	BA
10	39	0.020	1/4 x 5/8	WBR10-50	BB
25	15.5	0.035	5/16 x 3/4	WBR25-50	CC
50	7.7	0.060	3/8 x 7/8	WBR50-50	DD
100	3.9	0.140	1/2 x 1 1/8	WBR100-50	EG

Capacitance uF	ESR max ohms, 120Hz	ripple, amps 120Hz, 85°C	Nominal Case Size D x L (inches)	Catalog Number	Case Code
50 Vdc — 65 Vdc Surge					
150	2.5	0.160	5/8 x 1	WBR150-50	FE
250	1.5	0.220	5/8 x 1 1/8	WBR250-50	FG
500	0.77	0.340	3/4 x 1 1/8	WBR500-50	GJ
1000	0.39	0.530	7/8 x 2	WBR1000-50	HK
1500	0.25	0.740	1 x 2 1/2	WBR1500-50	JL
2000	0.19	0.900	1 x 2 1/2	WBR2000-50	JP
3000	0.15	1.200	1 x 4	WBR3000-50	JW
5000	0.11	2.600	1 3/8 x 3 1/2	WBR5000-50	MT
75 Vdc — 95 Vdc Surge					
150	2.5	0.180	5/8 x 1 1/8	WBR150-75	FG
275	1.3	0.280	3/4 x 1 1/8	WBR275-75	GJ
500	0.72	0.400	7/8 x 2	WBR500-75	HK
1000	0.36	0.750	1 x 2 1/2	WBR1000-75	JN
2000	0.2	1.150	1 3/8 x 2 1/2	WBR2000-75	MN
150 Vdc — 175 Vdc Surge					
4	78	0.018	5/16 x 3/4	WBR4-150	CC
5	62	0.020	3/8 x 5/8	WBR5-150	DB
8	39	0.030	3/8 x 3/4	WBR8-150	DC
10	31	0.034	3/8 x 7/8	WBR10-150	DD
16	19.5	0.045	3/8 x 1	WBR16-150	DE
20	15.5	0.050	3/8 x 1 1/4	WBR20-150	DF
30	10.5	0.085	3/8 x 1 1/2	WBR30-150	DH
40	7.8	0.096	3/8 x 1 3/8	WBR40-150	FG
50	6.2	0.105	3/8 x 1 3/8	WBR50-150	FG
60	5.2	0.130	3/8 x 1 3/8	WBR60-150	FG
80	3.9	0.155	3/4 x 1 3/8	WBR80-150	GG
100	3.1	0.190	3/4 x 1 3/8	WBR100-150	GJ
150	2.05	0.230	7/8 x 1 3/8	WBR150-150	HJ
200	1.55	0.310	7/8 x 2	WBR200-150	HK
250	1.25	0.325	1 x 1 3/8	WBR250-150	JJ
300	1.05	0.400	1 x 2 1/8	WBR300-150	JL
350	0.96	0.430	1 x 2 1/8	WBR350-150	JL
500	0.62	0.610	1 1/8 x 2 1/2	WBR500-150	KN
180 Vdc — 200 Vdc Surge					
125	2.3	0.300	3/4 x 2 1/2	WBR125-180	GN

AXIAL LEADED CAPACITORS

Capacitance uF	ESR max ohms, 120Hz	ripple, amps 120Hz, 85°C	Nominal Case Size D x L (inches)	Catalog Number	Case Code
180 Vdc — 200 Vdc Surge					
225	1.58	0.430	7/8 x 2 1/2	WBR225-180	HN
400	0.73	0.580	1 1/8 x 2 1/2	WBR400-180	KN
250 Vdc — 300 Vdc Surge					
4	64	0.035	1/2 x 1	WBR4-250	EE
8	32	0.056	1/2 x 1 3/8	WBR8-250	EG
12	21.5	0.062	1/2 x 1 3/8	WBR12-250	EG
16	16	0.065	3/8 x 1	WBR16-250	FE
20	12.5	0.075	3/4 x 1	WBR20-250	GE
30	8.4	0.105	3/4 x 1 3/8	WBR30-250	GG
40	6.3	0.125	3/8 x 1 3/8	WBR40-250	FJ
50	5	0.140	3/4 x 1 3/8	WBR50-250	GJ
60	4.2	0.180	3/4 x 2	WBR60-250	GK
80	3.1	0.200	7/8 x 1 3/8	WBR80-250	HJ
100	2.5	0.240	7/8 x 2	WBR100-250	HK
160	1.55	0.320	1 x 2 1/8	WBR160-250	JL
225	1.1	0.480	1 x 2 3/8	WBR225-250	JP
300	0.83	0.730	1 x 3 1/2	WBR300-250	JU
450	0.55	1.020	1 3/8 x 3	WBR450-250	MR
350 Vdc — 400 Vdc Surge					
4	51	0.036	1/2 x 1	WBR4-350	EE
8	26	0.050	3/8 x 1	WBR8-350	FE
20	10	0.090	3/4 x 1 3/8	WBR20-350	GG
40	5.1	0.135	3/4 x 1 3/8	WBR40-350	GJ
60	3.3	0.230	3/4 x 2 1/2	WBR60-350	GN
100	2	0.265	1 x 2	WBR100-350	JK
160	1.25	0.400	1 1/8 x 2 1/2	WBR160-350	KN
450 Vdc — 525 Vdc Surge					
1	205	0.023	3/8 x 1	WBR1-450	FE
2	102	0.030	3/8 x 1	WBR2-450	FE
4	51	0.038	3/8 x 1	WBR4-450	FE
5	40	0.042	3/8 x 1	WBR5-450	FE
8	26	0.053	3/4 x 1	WBR8-450	GE
10	20	0.058	3/4 x 1	WBR10-450	GE
12	17	0.062	3/4 x 1	WBR12-450	GE
16	12.5	0.084	3/4 x 1 3/8	WBR16-450	GG
20	10	0.105	3/4 x 1 3/8	WBR20-450	GJ
30	6.7	0.130	7/8 x 1 3/8	WBR30-450	HJ
40	5.1	0.170	7/8 x 2	WBR40-450	HK
50	4	0.220	7/8 x 2 1/2	WBR50-450	HN
80	2.6	0.325	1 x 2 3/8	WBR80-450	JP
100	2	0.465	1 x 3 1/2	WBR100-450	JU
160	1.25	0.700	1 1/8 x 4	WBR160-450	KW
225	0.97	0.820	1 3/8 x 3 1/2	WBR225-450	MT
500 Vdc — 550 Vdc Surge					
8	26	0.053	3/4 x 1	WBR8-500	GE
10	20	0.072	3/8 x 1 3/8	WBR10-500	FJ
16	12.5	0.095	3/4 x 1 3/8	WBR16-500	GJ
20	10	0.120	3/4 x 2	WBR20-500	GK
30	6.7	0.130	7/8 x 1 3/8	WBR30-500	HJ
40	5.1	0.215	7/8 x 2 1/2	WBR40-500	HN
60	3.3	0.255	1 x 2 1/2	WBR60-500	JN