

Date: January 31, 2023

Attention: CDE Distributor Partners and Sales Representatives

Discontinuation Notice: WBR, NLW

Parts Affected...

- Entire series
- Part# XXXXX
- Select part#s...see attached list

Reason for discontinuation...

- Declining market demand
- Change in strategic market focus
- Material no longer available for manufacturing

Effective date: January 31, 2023

Last time buy...

- CDE will accept orders through February 28, 2023
- Not applicable

Possible replacement series...

- IC/CDE series TTA, TMA. Cross Reference List Provided.
Note: TTA and TMA parts are generally smaller with better specs.
- No replacement at this time

For additional information regarding this discontinuation, please contact PM,

Trent Carroll

tcarroll@CDE.com

(847)675-1760 EXT 7741

EOL PN	WVDC	Capacitance (μF)	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C
WBR100-16A	16	100	5.300	57
WBR250-16A	16	250	2.100	118
WBR500-16A	16	500	1.100	270
WBR1000-16A	16	1000	0.530	420
WBR2000-16A	16	2000	0.270	660
WBR3000-16A	16	3000	0.180	820
WBR4000-16A	16	4000	0.130	1000
WBR5000-16A	16	5000	0.110	1200

WBR10-25A	25	10	48.000	18
WBR25-25A	25	25	19.000	31
WBR50-25A	25	50	9.500	44
WBR100-25A	25	100	4.800	74
WBR250-25A	25	250	1.800	155
WBR500-25A	25	500	0.950	280
WBR1000-25A	25	1000	0.480	450
WBR2000-25A	25	2000	0.230	720

WBR100-35A	35	100	4.400	86
WBR150-35A	35	150	2.950	114
WBR300-35A	35	300	1.450	195
WBR500-35A	35	500	0.870	285
WBR1000-35A	35	1000	0.440	450
WBR2000-35A	35	2000	0.220	910
WBR3000-35A	35	3000	0.150	1150

WBR1-50A	50	1	390.000	10
WBR2-50A	50	2	195.000	12
WBR5-50A	50	5	77.000	14
WBR10-50A	50	10	39.000	20
WBR25-50A	50	25	15.500	35
WBR50-50A	50	50	7.700	60
WBR100-50A	50	100	3.900	140
WBR150-50A	50	150	2.500	160
WBR250-50A	50	250	1.500	220
WBR500-50A	50	500	0.770	340
WBR1000-50A	50	1000	0.390	530
WBR1500-50A	50	1500	0.250	740

WBR150-75A	75	150	2.500	180
WBR275-75A	75	275	1.300	280
WBR500-75A	75	500	0.720	400

WBR4-150A	150	4	78.000	18
WBR5-150A	150	5	62.000	20
WBR8-150A	150	8	39.000	30

WBR10-150A	150	10	31.000	34
WBR16-150A	150	16	19.500	45
WBR20-150A	150	20	15.500	50
WBR30-150A	150	30	10.500	85
WBR40-150A	150	40	7.800	96
WBR50-150A	150	50	6.200	105
WBR60-150A	150	60	5.200	130
WBR80-150A	150	80	3.900	155
WBR100-150A	150	100	3.100	190
WBR150-150A	150	150	2.050	230

WBR125-180A	180	125	2.300	300
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WBR4-250A	250	4	64.000	35
WBR8-250A	250	8	32.000	56
WBR12-250A	250	12	21.500	62
WBR16-250A	250	16	16.000	65
WBR20-250A	250	20	12.500	75
WBR30-250A	250	30	8.400	105
WBR40-250A	250	40	6.300	125
WBR50-250A	250	50	5.000	140
WBR60-250A	250	60	4.200	180
WBR80-250A	250	80	3.100	200

WBR4-350A	350	4	51.000	36
WBR8-350A	350	8	26.000	50
WBR20-350A	350	20	10.000	90
WBR40-350A	350	40	5.100	135

WBR1-450A	450	1	205.000	23
WBR2-450A	450	2	102.000	30
WBR4-450A	450	4	51.000	38
WBR5-450A	450	5	40.000	42
WBR8-450A	450	8	26.000	53
WBR10-450A	450	10	20.000	58
WBR12-450A	450	12	17.000	62
WBR16-450A	450	16	12.500	84
WBR20-450A	450	20	10.000	105
WBR30-450A	450	30	6.700	130

Diameter (mm)	Length (mm)
9	19
9	22
10	25
10	34
12	40
13	46
17	46
17	46

POSSIBLE SUBSTITUTE	WVDC	Capacitance (µF)
107TTA025M	25	100
227TTA016M	16	220
477TTA016M	16	470
108TTA016M	16	1000
228TTA016M	16	2200
338TTA016M	16	3300
478TTA016M	16	4700
478TTA016M	16	4700

7	14
7	14
9	19
9	19
10	25
10	34
12	40
17	46

106TTA035M	35	10
226TTA035M	35	22
476TTA025M	25	47
107TTA025M	25	100
227TTA025M	25	220
477TTA025M	25	470
108TTA025M	25	1000
228TTA025M	25	2200

10	22
10	25
12	34
13	42
14	42
17	46
19	43

107TTA035M	35	100
157TTA035M	35	150
337TTA050M	50	330
477TTA035M	35	470
108TTA035M	35	1000
228TTA035M	35	2200
338TTA035M	35	3300

7	14
7	14
7	14
7	14
9	19
10	22
10	25
10	25
10	34
13	40
17	46
17	46

105TTA050M	50	1
225TTA050M	50	2.2
475TTA050M	50	4.7
106TTA050M	50	10
226TTA050M	50	22
476TTA050M	50	47
107TTA050M	50	100
157TTA050M	50	150
227TTA050M	50	220
477TTA050M	50	470
108TTA050M	50	1000
158TTA050M	50	1500

12	34
13	40
17	46

157TTA063M	63	150
337TTA063M	63	330
477TTA063M	63	470

9	22
9	22
10	22

475TTA160M	160	4.7
475TTA160M	160	4.7
106TTA160M	160	10

10	22
10	25
10	34
10	40
12	34
12	40
17	40
17	46
17	46
19	43

19	43
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10	25
10	34
10	34
12	40
12	40
13	40
13	46
17	46
17	46
19	43

10	25
12	34
13	40
17	46

10	25
10	25
12	40
12	40
12	40
13	40
17	46
17	46
17	46
19	43

106TTA160M	160	10
226TTA160M	160	22
226TTA160M	160	22
336TTA160M	160	33
476TTA160M	160	47
476TTA160M	160	47
107TTA160M	160	100
107TTA160M	160	100
107TTA160M	160	100
227TTA160M	160	220

107TTA250M	250	100
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475TTA350M	350	4.7
106TTA250M	250	10
106TTA250M	250	10
226TTA250M	250	22
226TTA250M	250	22
336TTA250M	250	33
476TTA250M	250	47
476TTA250M	250	47
107TTA250M	250	100
107TTA250M	250	100

475TTA350M	350	4.7
106TTA350M	350	10
226TTA350M	350	22
476TTA350M	350	47

105TTA450M	450	1
225TTA450M	450	2.2
475TTA450M	450	4.7
475TTA450M	450	4.7
106TTA450M	450	10
106TTA450M	450	10
106TTA450M	450	10
226TTA450M	450	22
226TTA450M	450	22
336TTA450M	450	33

Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Diameter (mm)	Length (mm)
2.653	170	6	13
1.507	260	8	16
0.706	450	8	20
0.332	700	10	26
0.181	1190	13	31
0.131	1610	16	31
0.099	1840	16	32
0.099	1840	16	32

23.210	41	5	13
10.550	70	5	13
5.644	105	6	13
2.653	170	6	13
1.206	280	8	16
0.564	560	10	21
0.265	830	13	26
0.151	1480	16	31

2.231	200	8	16
1.547	270	8	20
0.603	565	10	26
0.494	640	10	26
0.232	980	13	26
0.136	1580	16	31
0.090	1810	16	41

165.786	10	5	13
90.429	23	5	13
42.328	36	5	13
19.894	50	5	13
9.043	85	6.3	13
4.233	140	6.3	16
1.989	220	8	16
1.326	285	10	16
0.904	440	10	21
0.423	740	13	26
0.199	1130	16	30
0.155	1480	16	41

1.052	310	10	21
0.502	650	13	26
0.353	845	13	31

70.547	50	8	16
70.547	50	8	16
33.157	80	8	20

33.157	80	8	20
15.072	130	10	26
15.072	130	10	26
10.048	170	13	26
7.055	225	13	31
7.055	225	13	31
3.316	400	16	31
3.316	400	16	31
3.316	400	16	31
1.507	660	22	41

3.316	450	16	41
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70.547	55	8	20
33.157	90	10	21
33.157	90	10	21
15.072	160	13	26
15.072	160	13	26
10.048	190	13	31
7.055	255	16	31
7.055	255	16	31
3.316	450	16	41
3.316	450	16	41

70.547	55	8	20
33.157	100	13	26
15.072	150	13	31
7.055	290	16	41

414.466	19	8	16
188.394	31	10	21
88.184	50	10	26
88.184	50	10	26
41.447	90	13	25
41.447	90	13	25
41.447	90	13	25
18.839	160	16	31
18.839	160	16	31
12.560	230	16	41

EOL PN	WVDC	Capacitance (μF)	Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C
NLW200-6	2	200	2.00	112.5

NLW15-12	12	15	17.70	25.2
NLW100-12	12	100	3.30	67.5
NLW200-12	12	200	1.70	121.5
NLW250-12	12	250	1.30	130.5

NLW10-16	16	10	26.50	21.15
NLW15-16	16	15	17.70	25.2
NLW20-16	16	20	16.60	27.9
NLW25-16	16	25	13.30	32.4
NLW30-16	16	30	11.10	35.1
NLW50-16	16	50	6.70	48.6
NLW75-16	16	75	4.50	61.2
NLW100-16	16	100	3.30	67.5
NLW150-16	16	150	2.20	101.25
NLW200-16	16	200	1.70	121.5
NLW250-16	16	250	1.30	139.5
NLW300-16	16	300	1.10	166.5
NLW400-16	16	400	0.83	211.5

NLW1-25	25	1	200.00	9
NLW2-25	25	2	100.00	12
NLW3-25	25	3	67.00	14
NLW4-25	25	4	50.00	15
NLW5-25	25	5	40.00	17
NLW10-25	25	10	26.50	21
NLW15-25	25	15	17.70	25
NLW20-25	25	20	13.30	28
NLW25-25	25	25	10.60	37
NLW35-25	25	35	7.60	42
NLW40-25	25	40	6.70	44
NLW50-25	25	50	5.30	52
NLW75-25	25	75	3.60	79
NLW100-25	25	100	2.70	88
NLW150-25	25	150	1.80	117
NLW200-25	25	200	1.30	144
NLW250-25	25	250	1.06	180
NLW300-25	25	300	0.88	189

NLW1-50	50	1	200.00	9
NLW2-50	50	2	100.00	11.7
NLW3-50	50	3	67.00	13.5
NLW4-50	50	4	50.00	15.3
NLW5-50	50	5	40.00	16.65
NLW6-50	50	6	33.00	17.55

NLW8-50	50	8	25.00	20.7
NLW10-50	50	10	20.00	23.4
NLW15-50	50	15	13.50	30.6
NLW20-50	50	20	10.00	34.2
NLW25-50	50	25	8.00	40.5
NLW30-50	50	30	6.60	51.75
NLW35-50	50	35	5.70	58.5
NLW40-50	50	40	5.00	62.1
NLW50-50	50	50	4.00	72
NLW75-50	50	75	2.70	90
NLW100-50	50	100	2.00	112.5
NLW125-50	50	125	1.60	139.5

NLW2-100	100	2	100.00	9
NLW10-100	100	10	20.00	36.9
NLW15-100	100	15	13.50	46.8
NLW20-100	100	20	10.00	54.9
NLW25-100	100	25	8.00	59.85

NLW1-150	150	1	200.00	9
NLW2-150	150	2	100.00	12.6
NLW3-150	150	3	67.00	17.1
NLW5-150	150	5	40.00	22.05
NLW10-150	150	10	20.00	39.6
NLW12-150	150	12	17.00	45

Diameter (mm)	Length (mm)
10	22

7	14
8	21
10	24
10	24

7	14
7	14
7	14
7	18
7	18
8	19
9	21
9	21
10	22
10	24
10	27
10	33
10	40

7	14
7	14
7	14
7	14
7	14
7	14
7	14
7	14
8	18
9	19
9	19
9	21
10	22
10	22
10	27
10	27
10	40
10	40

7.112	14
7.112	14
7.112	14
7.112	14
7.112	14
7.112	14

POSSIBLE SUBSTITUTE	WVDC	Capacitance (μF)
227TMA010M	10	220

226TMA025M	25	22
107TMA025M	25	100
227TMA025M	25	220
227TMA025M	25	220

106TMA035M	35	10
226TMA025M	25	22
226TMA025M	25	22
226TMA025M	25	22
336TMA016M	16	33
476TMA016M	16	47
107TMA025M	25	100
107TMA025M	25	100
227TMA025M	25	220
227TMA025M	25	220
227TMA025M	25	220
337TMA016M	16	330
477TMA016M	16	470

105TMA050M	50	1
225TMA050M	50	2
335TMA050M	50	3
475TMA063M	63	5
475TMA063M	63	5
106TMA035M	35	10
226TMA025M	25	22
226TMA025M	25	22
226TMA025M	25	22
336TMA025M	25	33
476TMA050M	50	47
476TMA050M	50	47
107TMA025M	25	100
107TMA025M	25	100
227TMA025M	25	220
227TMA025M	25	220
227TMA025M	25	220
337TMA025M	25	330

105TMA050M	50	1
225TMA050M	50	2.2
335TMA050M	50	3.3
475TMA063M	63	4.7
475TMA063M	63	4.7
106TMA050M	50	10

7.112	18
7.112	18
7.112	18
8.128	19
8.636	21
10.16	19
10.16	22
10.16	22
10.16	24
10.16	27
10.16	34
10.16	40

106TMA050M	50	10
106TMA050M	50	10
226TMA063M	63	22
226TMA063M	63	22
226TMA063M	63	22
336TMA063M	63	33
336TMA063M	63	33
476TMA050M	50	47
476TMA050M	50	47
107TMA050M	50	100
107TMA050M	50	100
107TMA050M	50	100

7.112	14
10.16	22
10.16	24
10.16	27
10.16	27

225TMA100M	100	2.2
106TMA100M	100	10
226TMA100M	100	22
226TMA100M	100	22
226TMA100M	100	22

7	14
7	14
8	19
9	22
10	24
10	27

105TMA200M	200	1
225TMA200M	200	2.2
335TMA250M	250	3.3
475TMA200M	200	4.7
106TMA160M	160	10
226TMA160M	160	22

Maximum ESR (Ω) 120 Hz, +20°C	Maximum RMS Ripple Current (mA) 120 Hz, +85°C	Diameter (mm)	Length (mm)
1.81	115	6	16

12.06	48	5	13
2.65	120	6	16
1.21	200	8	16
1.21	200	8	16

23.21	33	5	13
12.06	48	5	13
12.06	48	5	13
12.06	48	5	13
10.05	54	5	13
7.06	71	6	13
2.65	120	6	16
2.65	120	6	16
1.21	200	8	16
1.21	200	8	16
1.21	200	8	16
1.01	230	8	16
0.71	310	8	20

198.94	10	5	13
90.43	18	5	13
60.29	22	5	13
35.27	32	5	13
35.27	32	5	13
23.21	33	5	13
12.06	48	5	13
12.06	48	5	13
12.06	48	5	13
8.04	64	6	13
4.23	100	6	16
4.23	100	6	16
2.65	120	6	16
2.65	120	6	16
1.21	200	8	16
1.21	200	8	16
1.21	200	8	16
0.80	270	8	20

198.94	10	5	13
90.43	18	5	13
60.29	22	5	13
35.27	32	5	13
35.27	32	5	13
19.89	41	5	13

19.89	41	5	13
19.89	41	5	13
7.54	73	6.3	16
7.54	73	6.3	16
7.54	73	6.3	16
5.02	89	6.3	16
5.02	89	6.3	16
4.23	100	6.3	16
4.23	100	6.3	16
1.99	155	8	16
1.99	155	8	16
1.99	155	8	16

67.82	19	5	13
14.92	52	6.3	16
6.78	85	8	16
6.78	85	8	16
6.78	85	8	16

331.57	9	6	13
150.72	17	6	16
100.48	24	8	16
70.55	28	8	16
33.16	43	8	20
15.07	85	10	26

PART#

WBR1000-16
WBR1000-16A
WBR1000-25A
WBR1000-35A
WBR1000-50A
WBR100-150A
WBR100-16
WBR100-16A
WBR100-25A
WBR100-35A
WBR100-50A
WBR10069
WBR10084
WBR10-150A
WBR10-25A
WBR10-450A
WBR10-50A
WBR12-250A
WBR12-450A
WBR125-180A
WBR1-450A
WBR1500-50A
WBR150-150
WBR150-150A
WBR150-35A
WBR150-50A
WBR150-75A
WBR1-50A
WBR16-150A
WBR16-250A
WBR16-450A
WBR2000-16A
WBR2000-25
WBR2000-25A
WBR2000-35A
WBR20-150A
WBR20-250A
WBR20-350A
WBR20-450A
WBR2-450A
WBR250-16A
WBR250-25A
WBR250-50A
WBR2-50A
WBR25-25A
WBR25-25AE
WBR25-50A
WBR275-75A
WBR3000-16A

WBR3000-35A
WBR300-35A
WBR30-150A
WBR30-250A
WBR30-450A
WBR4000-16A
WBR40-150A
WBR40-250A
WBR40-350A
WBR4-150A
WBR4-250
WBR4-250A
WBR4-350A
WBR4-450A
WBR5000-16
WBR5000-16A
WBR500-16A
WBR500-25
WBR500-25A
WBR500-35A
WBR500-35AE
WBR500-35E
WBR500-50A
WBR500-50AE
WBR500-75A
WBR50-150A
WBR50-250
WBR50-250A
WBR50-25A
WBR50-50
WBR50-50A
WBR50-50E
WBR5-150A
WBR5-450A
WBR5-50A
WBR5-50E
WBR60-150A
WBR60-250A
WBR80-150A
WBR80-250A
WBR80-250AE
WBR80-250E
WBR8-150A
WBR8-250A
WBR8-250AE
WBR8-350A
WBR8-450A

PART#

NLW100-12
NLW100-12E
NLW100-16
NLW100-16E
NLW100-25
NLW100-25E
NLW100-50
NLW100-50E
NLW100-6
NLW10-100
NLW10-100E
NLW10-150
NLW10-16
NLW10-25
NLW10-25E
NLW10-50
NLW10-50E
NLW1-150
NLW12-150
NLW1-25
NLW125-10
NLW125-50
NLW1-25E
NLW1487E
NLW1-50
NLW150-16
NLW150-25
NLW1-50E
NLW15-100
NLW15-12
NLW15-16
NLW15-25
NLW15-25E
NLW15-25E-SM
NLW15-50
NLW15-50E
NLW1810
NLW1810A
NLW1811E
NLW1811ER+DB
NLW200-12
NLW200-16
NLW200-16E
NLW200-25
NLW200-25E
NLW200-6
NLW20-100
NLW20-100E
NLW20-150

NLW20-16
NLW20-25
NLW20-50
NLW2-100
NLW2-150
NLW2-25
NLW2-50
NLW250-12
NLW250-16
NLW250-25
NLW2-50ER+CB
NLW25-100
NLW25-12
NLW25-150
NLW25-16
NLW25-25
NLW25-25E
NLW25-25R+CB
NLW25-50
NLW25-50E
NLW300-16
NLW300-25
NLW30-100
NLW30-100E
NLW30-16
NLW30-25
NLW30-50
NLW3-150
NLW3-25
NLW3-50
NLW35-25
NLW35-50
NLW35-50E
NLW400-16
NLW400-16E
NLW40-100
NLW40-25
NLW40-50
NLW4-100
NLW4-150
NLW4-50
NLW500-6
NLW50-16
NLW50-16E
NLW50-16ER+CB
NLW50-25
NLW50-25E
NLW50-50
NLW50-50E
NLW5-100

NLW5-150
NLW5-150E
NLW5-16
NLW5-25
NLW5-50
NLW6-25
NLW6-50
NLW75-16
NLW75-25
NLW75-25E
NLW75-50
NLW8-150
NLW8-25
NLW8-50