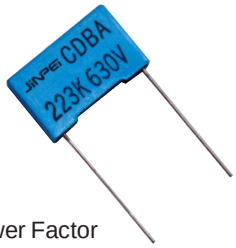
CDBA SERIES:

Power Factor Correction, Box Type



INTRODUCTION

CDBA Series are constructed specifically for Power Factor Correction (PFC) applications. Film was selected and metalization applied specifically for PFC application requirements.

FEATURES

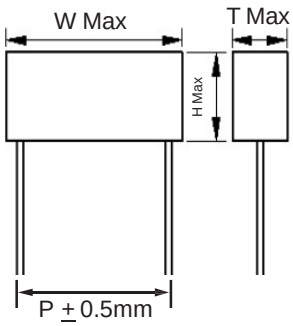
- Self-healing property
- Excellent dv/dt
- RoHS Compliance
- Ultra-miniature Size
- Ideal for Power Factor correction applications
- UL 94V-0 rated case

PART NUMBER EXAMPLE

CDBA 104 K 2W 100 B 200 S

- Series
- Capacitance
- Tolerance
- Voltage
- Lead Style
- Lead Length
- Packaging
- Lead space*

* Leadspace is straight lead non-formed original leadspace.



SPECIFICATIONS

Items	Performance
Operating Voltage Range	450Vdc, 520Vdc, 630Vdc
Rated Temperature	-40 °C ~ 105°C (Voltage derates 1.25%per℃ over 85°C)
Capacitance Range	0.022 μF ~ 8.2 μF
Capacitance Tolerance	±5% (J), ±10% (K), ±20% (M)
Dissipation Factor	0.1% (max.) at 1KHz 0.2% (max.) at 10KHz
Insulation Resistance Terminal to Terminal	Voltage Charge: 100Vdc x 1min (at 20°C ± 5°C) ≥15,000MΩ for C ≤ 0.33μF ≥50,000MΩ x μF for C >0.33μF
Withstand Voltage	Terminal to Terminal: (at 20°C ± 5°C) 1.6 x V_R applied for 2sec. (cut off current 10mA)
Rated Voltage Pulse Slope dV/dt (V/μs)	

P / V_R	10mm	15mm	22.5mm	27.5mm
450Vdc	300	200	100	80
520Vdc	350	220	150	100
630Vdc	400	300	180	120

PERFORMANCE

Item	Test Methods	Requirements
Resistance to Soldering Heat IEC60068-2-20	Solder Bath: 260°C ± 5°C Immersion Time: 10sec ± 1sec	Capacitance Change ΔC/C : 1% DF Change Δ tan δ : 0.1% at 1KHz IR: > limit value
Resistance to Vibration IEC60068-2-6	Frequency Range: 10Hz to 55Hz Amplitude: 1.5mm Duration: 6 hours	There shall be no Visible Damage, No Intermittent Contact, No Open or Short Circuit
Damp Heat, Steady State IEC60068-2-3	Temperature: 40°C ± 2°C Relative Humidity: 90% to 95% Duration: 1,000 hours	Capcitance Change ΔC/C : 3% DF Change tan δ : 0.1% at 1KHz IR : 50% limit value
Electrical Endurance IEC60384-16	Temperature: 85°C + 2°C Voltage Applied: 1.25 x Vr(DC) Duration: 1,000 hours	Capacitance Change ΔC/C : 3% DF Change tan δ : 0.1% at 1KHz IR : 50% limit value

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DIMENSIONS (mm)

450Vdc (2W)

R.V.		450Vdc (2W)					
(μF)	Code	W	H	T	P	d	dV/dt
0.068	683	13.0	9	4	10	0.6	300
0.082	823	13.0	9	4	10	0.6	300
0.100	104	17.5	10	5	15	0.6	200
0.120	124	17.5	11	5	15	0.6	200
0.150	154	17.5	11	5	15	0.6	200
0.180	184	17.5	11	5	15	0.6	200
0.220	224	13.0	13	6	10	0.6	220
		17.5	11	5	15	0.6	200
0.270	274	17.5	12	6	15	0.6	200
0.330	334	17.5	12	6	15	0.6	200
0.390	394	17.5	14	8	15	0.6	200
0.470	474	17.5	14	8	15	0.6	200
0.560	564	17.5	14	8	15	0.6	200
0.680	684	17.5	16	10	15	0.8	200

R.V.		450Vdc (2W)					
(μF)	Code	W	H	T	P	d	dV/dt
0.820	824	17.5	16	10	15	0.8	200
1.000	105	26.5	17	9	22.5	0.8	100
1.200	125	26.5	19	10	22.5	0.8	100
1.500	155	26.5	19	10	22.5	0.8	100
1.800	185	26.5	22	12	22.5	0.8	100
2.200	225	32.0	20	11	27.5	0.8	80
2.700	275	32.0	22	13	27.5	0.8	80
3.300	335	32.0	22	13	27.5	0.8	80
3.900	395	32.0	25	15	27.5	0.8	80
4.700	475	32.0	33	18	27.5	0.8	80
5.600	565	32.0	33	18	27.5	0.8	80
6.800	685	32.0	33	18	27.5	0.8	80
8.200	825	32.0	33	18	27.5	0.8	80

520Vdc (2Y)

R.V.		520Vdc (2Y)					
(μF)	Code	W	H	T	P	d	dV/dt
0.047	473	13.0	9	4	10	0.6	350
0.056	563	13.0	9	4	10	0.6	350
0.068	683	13.0	9	4	10	0.6	350
0.082	823	13.0	11	5	10	0.6	350
0.100	104	17.5	11	5	15	0.6	220
0.120	124	17.5	11	5	15	0.6	220
0.150	154	13.0	12	6	10	0.6	220
		17.5	11	5	15		
0.180	184	17.5	11	5	15	0.6	220
0.220	224	17.5	12	6	15	0.6	220
0.270	274	17.5	12	6	15	0.6	220
0.330	334	17.5	14	8	15	0.6	220
0.390	394	17.5	14	8	15	0.6	220
0.470	474	17.5	15	9	15	0.8	220
0.560	564	17.5	16	10	15	0.8	220

R.V.		520Vdc (2Y)					
(μF)	Code	W	H	T	P	d	dV/dt
0.680	684	17.5	16	10	15	0.8	220
0.820	824	26.5	17	9	22.5	0.8	150
1.000	105	26.5	19	10	22.5	0.8	150
1.200	125	26.5	19	10	22.5	0.8	150
1.500	155	26.5	22	12	22.5	0.8	150
1.800	185	26.5	22	12	22.5	0.8	150
2.200	225	32.0	22	13	27.5	0.8	100
2.700	275	32.0	25	15	27.5	0.8	100
3.300	335	32.0	28	14	27.5	0.8	100
3.900	395	32.0	28	14	27.5	0.8	100
4.700	475	32.0	33	18	27.5	0.8	100
5.600	565	32.0	33	18	27.5	0.8	100
6.800	685	32.0	33	18	27.5	0.8	100

630Vdc (2J)

R.V.		630Vdc (2J)					
(μF)	Code	W	H	T	P	d	dv / dt
0.022	223	13.0	9	4	10.0	0.6	400
0.027	273	13.0	9	4	10.0	0.6	400
0.033	333	13.0	9	4	10.0	0.6	400
0.039	393	13.0	9	4	10.0	0.6	400
0.047	473	13.0	11	5	10.0	0.6	400
0.056	563	13.0	11	5	10.0	0.6	400
0.068	683	13.0	11	5	10.0	0.6	400
0.082	823	13.0	12	6	10.0	0.6	400
0.100	104	17.5	11	5	15.0	0.6	300
0.120	124	17.5	11	5	15.0	0.6	300
0.150	154	17.5	12	6	15.0	0.6	300
0.180	184	17.5	12	6	15.0	0.6	300
0.220	224	17.5	14	8	15.0	0.6	300
0.270	274	17.5	14	8	15.0	0.6	300
0.330	334	17.5	15	9	15.0	0.8	300

R.V.		630Vdc (2J)					
(μF)	Code	W	H	T	P	d	dv / dt
0.390	394	17.5	16	10	15.0	0.8	300
0.470	474	17.5	16	10	15.0	0.8	300
0.560	564	26.5	17	9	22.5	0.8	180
0.680	684	26.5	17	9	22.5	0.8	180
0.820	824	26.5	19	10	22.5	0.8	180
1.000	105	26.5	19	10	22.5	0.8	180
1.200	125	26.5	22	12	22.5	0.8	180
1.500	155	26.0	22	11	22.5	0.8	120
		32.0	22	13	27.5		
1.800	185	32.0	22	13	27.5	0.8	120
2.200	225	32.0	25	15	27.5	0.8	120
2.700	275	32.0	28	14	27.5	0.8	120
3.300	335	32.0	33	18	27.5	0.8	120
3.900	395	32.0	33	18	27.5	0.8	120

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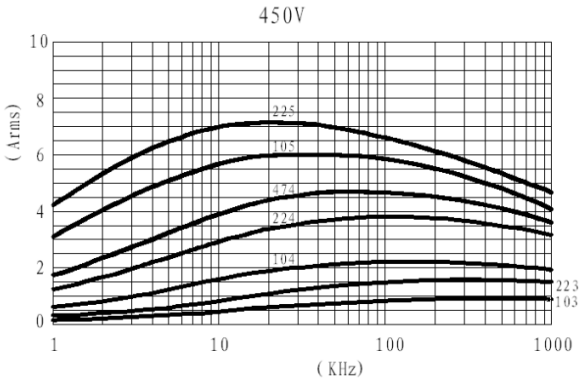
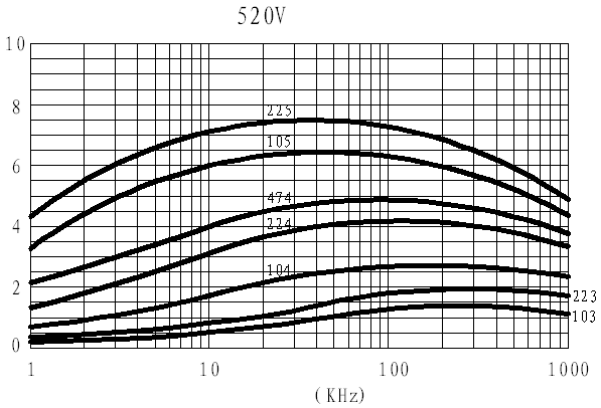
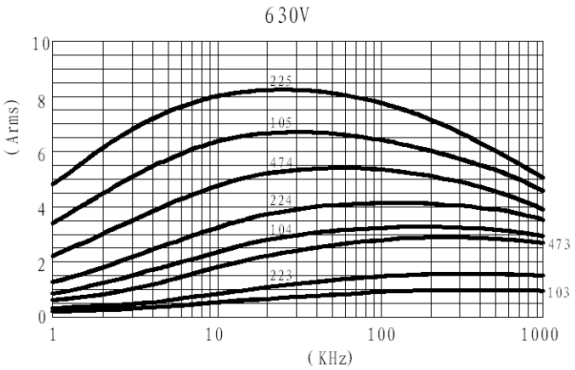
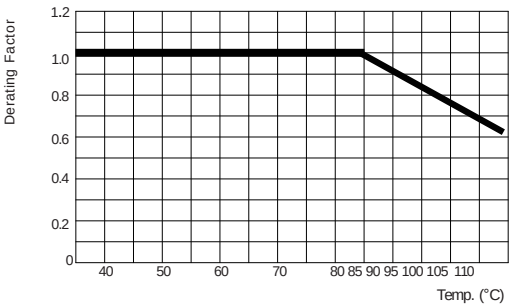
CURRENT ARMS VS. FREQUENCY (450V, 520V, 630V)







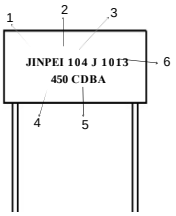
MAX. DC & AC VOLTAGE VS TEMPERATURE



PACKAGING CODE

Method	Bulk	Ammo	Reel
Code	B	A	R

MARKING



1. Name or Symbol
2. Nominal Capacitance in μF
3. Capacitance Tolerance
4. DC, Rating, Voltage
5. Type Name
6. Date Code
   Year: 11→ 2011, 12→ 2012, 13→ 2013
   Week On: 01~53

LEAD LENGTH FROM SEATING PLANE

mm	5	10	15	20	25
Code	050	100	150	200	250

TAPE CODE (Lead spacing of tape, if taped)

Spacing	10mm	15mm
Packing	A	A
Code	RT3	RT4