

CD110 SERIES

Features

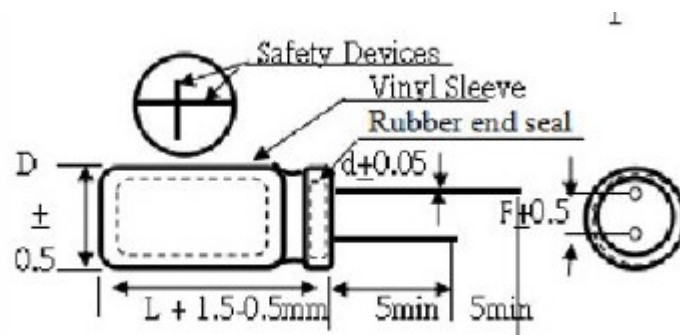
- Small size, Wide temperature range
- Has characteristics of withstanding high temperature 105°C and reliability
- Suitable for communication equipment and pc industrial measurement instruments



Specifications

Operating teperature	-40~ +105℃						-25~ +105℃				
Rated voltage range	6.3-100V DC						160-450V DC				
Nominal capacitance	0.1-15000uF						1-470μF				
Capacitance tolerance	±20%(25 "C , 120Hz)										
Dissipation factor (25℃,120HZ)	UR(V)	6.3	10	16	25	35	50	63	100	160	250
	Tg δ	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.18	0.18
	Ua(V)	350	400	450							
	Tg δ	0.24	0.24	0.24							
Temperature Characteristics (120HZ)	UR(V)	6.3	10	16	25	35	50	63	100	160	240-250
	Z-25°C/Z+20°C	5	4	3	2	2	2	2	2	3	4
	-40-C/z-1-20-c	9	8	6	4	3	3	3	3	4	5
	I is added to every 1000uF increase over 1000 11 F										
Load life	After appylying rated voltage with specified ripple current for 2000hours at +105Cand then resumed 16hours; Capacitance change: Within :20% of the initial measured value Leakage current: Not more than the initial specified value Dissipation factor: Not more than 150% of the inialal specified value										
Shelf life	After storage for 1000hours at +105-C then resumed 16hours Shelf life Capacitance change With :1:20% of the initial measured value leakage current Not more than 200% of the initial specified value Dissipation factor: Not more than 120% of the initial specified value										

Case size table



ΦD	5	6	8	10	12	13	16/18	21/22
F	2.0	2.5	3.5	5.0			7.5	10
Φd	0.5			0.6			0.8	
α	1.0			1.5			2.0	

How to order

CD110

2

470

M

630

B

8X12

Series code

Number of
characters
for capacitance
(47uF=2,
470uF=3
4700uF=4)

Capaictance
(47uF=470
3300uF=332
33000uF=333)

Caoacutance
tolerance
(M+~20% K +-10%)

Voltage code
(6.3V=6R3,
10V= 100,
63V=630,
100V=101)

Package
(B: Bulk pack
A : Ammo Pack)

Size code

Environmental

RoHS declaration (6/6) complies with the requirements of Directive 2002/95/EC, which stipulates the use of 100% Sn solder, gold plated or non-magnetic 100% Sn solder



Application

Computer

PC Power

Measuring instruments

Telecom Infrastructure





Nominal capacitance, rated voltage, rated ripple current and case size table

Cr(UF) UR ITEM	6		10		16		25		35	
	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)
4.7							5×11	20	5×11	25
10			5x11	28	5x11	28	5x11	30	5x11	32
22	5x11	32	5x11	37	5x11	41	5x11	44	5x11	52
33	5x11	41	6.3x11	46	5x11	51	5x11	60	5x11	64
47	5x11	so	5x11	54	5x11	67	5x11	70	6x12	85
100	5x11	80	5x11	85	5x11	110	6x11	110	6x12	140
220	5x11	136	6x12	143	6x12	180	8x12	220	8x12	270
330	6x11	187	6x12	200	8x11	250	8x12	300	10x12	350
470	6x12	213	6x12	280	8x12	330	10x12	400	10x16	480
1000	8x12	400	8x14	480	10x12	550	10x20	720	13x20	750
2200	10x15	700	10x20	850	13x20	900	13x25	1200	16x25	1300
3300	10x20	950	13x20	1100	13x25	1200	16x25	1500	16x35	1700
4700	13x20	1100	13x25	1300	16x25	1600	16x30	1920	18x35	2060
6800	13x25	1400	16x25	1600	16x30	2115	18x35	2280	22x40	2325
10000	16x25	1800	16x30	2160	18x35	2365	22x40	2730		
1500	16x35	2400	18x35	2850						



Nominal capacitance, rated voltage, rated ripple current and case size table

Cr(UF) ITEM	50		63		100		160		250	
	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)
0.1	5x11	3			5x11	4	5x11	20	5x11	25
0.22	5x11	5			5x11	6				
0.33	5x11	6			5x11	7				
0.47	5x11	8			5x11	8				
1	5x11	10			5x11	12	5x11	9	6x12	11
2.2	5x11	16			5x11	18	6x11	16	6x12	18
3.3	5x11	20			5x11	22	6x11	21	8x12	25
4.7	5x11	24	5x11	25	5x11	29	8x11	30	8x16	30
10	5x11	35	5x11	41	6x11	50	8x12	40	10x15	53
22	5x11	58	6x12	70	8x11	80	10x15	75	13x20	100
33	6x12	80	6x12	85	8x12	110	10x20	103	12x20	125
47	6x12	95	8x11	110	8x14	140	12x20	149	12x25	163
100	8x11	180	10x12	200	10x20	220	16x25	245	16x30	280
220	10x15	330	10x15	340	13x25	410	16x35	480		
330	10x20	410	10x20	450	16x25	560	21x30	680		
470	10x20	560	13x20	560	16x25	730	22x40	900		
1000	13x25	800	16x25	950	22x40	1150				
2200	16x30	1400	18x35	2000						
3300	18x35	1800	22x40	2100						
4700	22x40	2240								

Nominal capacitance, rated voltage, rated ripple current and case size table

Cr(UF) UR(V) Item	300		450		500	
	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)	DXL (MM)	Ripple (mA)
1	6x11	19	6x11	19	6x11	19
2.2	8x12	30	8x12	30	8x12	30
3.3	8x12	40	8x12	40	8x12	40
4.7	8x12	43	8x12	43	10x13	60
6.8	10x13	61	10x16	68	10x16	68
10	10x16	73	10x20	78	10x20	78
22	13x21	163	13x21	163	13x25	188
33	13x25	193	13x25	193	16x25	237
47	16x25	290	16x25	290	18x25	305
68	16x30	405	18x25	405	18x30	418
82	18x30	443	18x30	443	18x30	443
100	18x30	489	18x32	489	18x35	520
120			18x35	570	18x40	592
150			18x35	616	18x45	640
180			18x45	800		