

CDZ12 Series

- Wide temperature, super low impedance, long life, high ripple current, suited for use in communication sources
- Load life of 5000 hours at 105°C

■ Specifications

Item	Characteristics						
Operating Temperature Range	-55°C ~ +105°C						
Rated Voltage Range	6.3V~50V						
Nominal Capacitance Range	0.47μF ~ 15000μF						
Capacitance Tolerance	M(± 20%) (20°C, 120Hz)						
Leakage Current	I ≤ 0.03C _R U _R or 4 (mA), whichever is greater. C _R : Nominal capacitance(mA) U _R : Rated voltage(V) (20°C, after 5 minutes)						
Dissipation Factor(Max)	U _R (V)	6.3	10	16	25	34	50
	tan δ	0.22	0.19	0.16	0.14	0.12	0.10
	0.02 is added to every 1000V increase over 1000V (20°C, 120Hz)						
Low Temperature Stability (Impedance Ratio)	U _R (V)	6.3	10	16	25	35	50
	Z(-55°C)/Z(+20°C)	4	4	3	3	3	2
	(120Hz)						
Load Life	After 5000 hours'(D= 5,6.3: 2000 hours'; D=8: 3000 hours') application of rated voltage with rated ripple current at 105°C ,the capacitor shall meet the following requirement:						
	Capacitance change	Within ±20% of the initial value.					
	Dissipation factor	Not more than 200% of the initial specified value.					
	Leakage current	Not more than the initial specified value.					
Shelf Life	After storage for 1000hours at +105, the capacitors shall meet the requirement of load life above.						

■ Dimensions

D	±0.5				±1.0								mm				
	5	6.3	8	10	20	25	30	20	25	30	35	40	30	35	40	35	40
L±2.0	12	12	16	12	16	20	20	25	30	20	25	30	35	40	30	35	40
F±0.5	2.0	2.5	3.5												7.5		
d±0.1	0.5														0.8		
a				1.5									2.0				

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

UR(V)	6.3			10			16			
	Item CR (μF)	D×L mm	Z	I~	D×L mm	Z	I~	D×L mm	Z	I~
47								5×12	0.8	92
56								5×12	0.65	105
68					5×12	0.80	97	6.3×12	0.50	135
82					5×12	0.65	110	6.3×12	0.42	155
100	5×12	0.85	99	6.3×12	0.55	135	6.3×12	0.35	175	
120	5×12	0.65	115	6.3×12	0.44	160	6.3×12	0.29	195	
150	6.3×12	0.49	155	6.3×12	0.35	185	6.3×16	0.23	260	
180	6.3×12	0.39	175	6.3×12	0.29	205	6.3×16	0.20	285	
220	6.3×12	0.30	205	6.3×16	0.24	270	8×12	0.16	335	
270	6.3×16	0.24	275	6.3×16	0.20	300	8×16	0.14	410	
330	6.3×16	0.20	310	8×12	0.16	350	8×16	0.12	455	
390	8×12	0.17	345	8×16	0.14	430	8×20	0.10	570	
470	8×16	0.14	435	8×16	0.12	475	8×20	0.085	615	
560	8×16	0.12	480	8×20	0.10	590	10×20	0.070	770	
680	8×20	0.10	605	8×20	0.078	660	10×20	0.060	845	
820	8×20	0.085	670	10×20	0.070	835	10×25	0.050	1030	
1000	10×20	0.070	820	10×20	0.060	915	10×30	0.042	1210	
1200	10×20	0.060	895	10×25	0.050	1120	12.5×20	0.040	1250	
1500	10×25	0.050	1090	10×30	0.040	1290	12.5×25	0.036	1490	
1800	10×30	0.045	1230	12.5×20	0.037	1320	12.5×30	0.032	1690	
2200	10×30	0.035	1320	12.5×25	0.034	1530	12.5×30	0.028	1800	
2700	12.5×25	0.032	1430	12.5×30	0.030	1740	12.5×35	0.025	1990	
3300	12.5×25	0.030	1530	12.5×35	0.026	1960	12.5×40	0.023	2160	
3900	12.5×30	0.028	1710	12.5×40	0.024	2120	16×30	0.022	2220	
4700	12.5×35	0.027	1890	16×30	0.023	2170	16×35	0.020	2410	
5600	12.5×40	0.026	2040	16×35	0.021	2340	16×40	0.019	2530	
6800	16×30	0.024	2130	16×35	0.020	2410	18×35	0.018	2610	
8200	16×35	0.022	2290	16×40	0.019	2530	18×40	0.017	2730	
10000	16×40	0.020	2470	18×40	0.017	2730				
12000	18×35	0.019	2530						Rated ripple current(mA rms) (105°C, 120Hz)	
15000	18×40	0.018	2660						Impedance (Ω) (20°C,100kHz)	

Aluminum Electrolytic Capacitors

Xindecon 

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

U _R (V)	25			35			50			
	C _R (μF)	D×L mm	Z	I~	D×L mm	Z	I~	D×L mm	Z	I~
0.47								5×12	23.0	11
0.68								5×12	16.0	14
1								5×12	11.0	18
1.5								5×12	7.50	22
2.2								5×12	5.00	27
3.3								5×12	3.30	33
4.7								5×12	2.20	40
6.8								5×12	1.80	45
10								5×12	1.40	57
12								5×12	1.20	62
15								5×12	0.93	72
18								5×12	0.80	79
22				5×12	0.75	85	6.3×12	0.65	100	
27				5×2	0.60	99	6.3×12	0.53	115	
33	5×12	0.8	88	6.3×12	0.49	125	6.3×12	0.43	135	
39	5×12	0.65	100	6.3×12	0.41	140	6.3×12	0.36	150	
47	6.3×12	0.55	125	6.3×12	0.34	160	6.3×16	0.30	195	
56	6.3×12	0.44	140	6.3×12	0.28	180	6.3×16	0.25	220	
68	6.3×12	0.36	160	6.3×16	0.24	230	8×12	0.20	255	
82	6.3×12	0.30	180	6.3×16	0.19	265	8×16	0.17	320	
100	6.3×16	0.24	245	8×12	0.16	305	8×20	0.14	410	
120	6.3×16	0.20	275	8×16	0.14	370	8×20	0.12	455	
150	8×12	0.16	320	8×16	0.12	415	10×20	0.10	570	
180	8×16	0.14	390	8×20	0.10	520	10×20	0.085	635	
220	8×16	0.11	455	8×20	0.085	580	10×25	0.075	760	
270	8×20	0.095	560	10×20	0.070	735	10×30	0.065	900	
330	8×20	0.085	610	10×20	0.060	810	10×30	0.055	995	
390	10×20	0.070	770	10×25	0.055	955	12.5×25	0.048	1120	
470	10×20	0.065	810	10×30	0.046	1130	12.5×25	0.044	1190	
560	10×25	0.055	990	12.5×20	0.041	1160	12.5×30	0.040	1360	
680	10×30	0.046	1180	12.5×25	0.036	1370	12.5×35	0.036	1530	
820	12.5×20	0.041	1210	12.5×25	0.032	1490	12.5×40	0.033	1700	
1000	12.5×25	0.036	1430	12.5×30	0.029	1710	16×30	0.030	1830	
1200	12.5×25	0.032	1550	12.5×35	0.026	1920	16×35	0.028	1990	
1500	12.5×30	0.029	1780	12.5×40	0.024	2120	16×40	0.026	2170	
1800	12.5×35	0.026	1960	16×30	0.022	2220	18×35	0.025	2210	
2200	12.5×40	0.024	2120	16×35	0.020	2410	18×40	0.024	2300	
2700	16×30	0.022	2220	16×40	0.018	2610				
3300	16×35	0.020	2410	18×40	0.017	2730				
3900	16×40	0.019	2530							
4700	18×40	0.018	2660							