2000 - 5000h at 105℃

- Low ImpedanceHigh Ripple CurrentSMPS, UPS

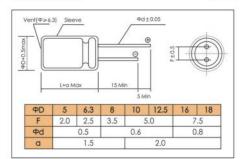


Items	Characteristics								
Operating Temperature Range (°C)	-55 ~ +105								
Voltage Range (V)				6.3 ~ 100)				
Capacitance Range (µF)		0.47 ~ 15000							
Capacitance Tolerance (20°C, 120Hz)	± 20%								
	After 2 minutes at 20°C application of rated voltage, leakage current is not more than 0.02CV or 3, whichever is a C: Nominal Capacitance $\{\mu F\}$ V: Rated Voltage $\{V\}$							vor is arou	
Leakage Current (µA)								3, WHICHE	ver is gree
Leakage Current (μA)	Rated Voltage (V)							63	100
	Service of Service 1 service	C: Nomino	al Capacito	ance (µF)	V: Rated	Voltage (V	/)	1000	
Leakage Current (μA) Dissipation Factor (20°C, 120Hz)	Rated Voltage (V) Tan & (max)	C: Nomino	10 0.19	16 0.16	V: Rated 25 0.14	35 0.12	50 0.10	63	100
	Rated Voltage (V) Tan & (max)	6.3 0.22	10 0.19	16 0.16	V: Rated 25 0.14 dd 0.02 to	35 0.12	50 0.10	63	100

	Use	ful Life	Load Life	Endurance Test		Shelf Life
Lifetime	Φ ≤ 6.3 : 4000h Φ 8 - 10 : 6000h Φ ≥ 12.5 : 10000h	Φ ≥ 8: > 250000h	Ф ≤ 6.3 : 2000 Ф 8 - 10 : 3000 Φ ≥ 12.5 : 5000	рh Ф8-10 :5000h	1000h	
Leakage Current	Not more than specified value		Not more than specified value	Not more than specified value	Not more than specified value	
Capacitance Change	Within ± 30% of initial value		Within ± 20% of in value	nitial Within ± 20% of initial value	Within value	± 20% of initial
Dissipation Factor	Not more than 300% of	of specified value	Not more than 20 specified value	00% of Not more than 200% of specified value		ore than 200% of ed value
Condition: Applied Voltage Applied Current Applied Temperature	U _R I _R 105℃	U _R 1.4 × I _R 40°C	U _R I _R 105℃	U _R I _E = 0 105℃		After test: U _g to be applied for 30min >24h before measurement

Dimensions

mm



Frequency Coefficient

Cap (µF)	120Hz	1kHz	10kHz	100kHz
0.47 ~ 4.7	0.40	0.68	0.83	1.00
5.6 ~ 47	0.50	0.76	0.87	1.00
56 ~ 270	0.70	0.85	0.93	1.00
330 ~ 1000	0.80	0.93	0.98	1.00
1200 ~ 15000	0.90	0.95	1.00	1.00

Temperature Coefficient

Temperature(°C)	+70	+85	+105
Coefficient	1.96	1.68	1.00

ZL CD287



Ratings for CD 287 Series

U _R (Surge oltage) Code	Rated Capa- citance	Max ESR 20℃, 120Hz	Max Imp 20℃. 100kHz	Max Imp -10°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size PD x L
(V)	(µF)	(Ω)	(Ω)	(Ω)	(mArms)	(mm)
	100	2.919	0.65	1.3	175	5×11.5
	150	1.946	0.46	0.92	235	5×15
	330	1.327 0.885	0.3	0.6	290 400	6.3×11.5
	470	0.621	0.17	0.34	488	8×11.5
	680	0.429	0.13	0.26	617	8×16
	820	0.429	0.12	0.24	613 734	10×12.5
	1000	0.292	0.075	0.19	800	8×20
	1200	0.243	0.065	0.13	1010	10×20
	1500	0.243	0.065	0.13	1010	12.5×15
		0.145	0.055	0.09	1440	10×25 10×30
	2200	0.145	0.042	0.084	1400	12.5×20
6.3	2700	0.118	0.038	0.076	1690	12.5×25
(7.2) OJ	3300	0.118	0.046	0.092	1310	16×15 18×15
03	3900	0,088	0.032	0.064	1950	12,5×30
	4700	0.079	0.028	0.056	2220	12.5×35
		0.079	0.034	0.068	1660	16×20
	5600	0.071	0.028	0.052	2390	12.5×40 16×25
	0000	0,071	0.03	0.06	1850	18×20
	6800	0.062	0.025	0.05	2350	16×31.5
	8200	0.062	0.027	0.054	2120 2550	18×25
	10000	0.058	0.022	0.044	2410	16×35.5 18×31.5
	12000	0.049	0.02	0.04	2970	16×40
		0.049	0.02	0.04	2680	18×35.5
	15000	3.075	0.019	0.038	3010 175	18×40 5×11.5
	100	2.521	0.46	0.92	235	5×15
	180	1,401	0.3	0.6	290	6.3×11.5
	220	1.146	0.2	0.4	400	6.3×15
	330	0.764	0.17	0.34	488 617	8×11.5 8×16
	470	0.536	0.12	0.24	613	10×12.5
	560	0.45	0.095	0.19	734	10×16
	680	0.371	0.095	0.19	800	8×20
	1000	0.252	0.065	0.13	1010	10×20 12.5×15
	1200	0.21	0.055	0.11	1190	10×25
	1500	0.168	0.045	0.09	1440	10×30
10	1800	0.14	0.042	0.084	1400	12.5×20 16×15
10 (13)	0000	0.127	0.038	0.072	1690	12.5×25
1A	2200	0.127	0.043	0.086	1460	18×15
	2700	0.103	0.032	0.064	1950	12.5×30
	3300	0.092	0.028	0.056	1660	12.5×35 16×20
		0.078	0.026	0.052	2390	12.5×40
	3900	0.078	0.028	0.056	2070	16×25
	4700	0.078	0.03	0.06	1850	18×20
	4700 5600	0.071	0.027	0.054	2120	16×31.5
	6800	0.057	0.022	0.044	2550	16×35.5
	0000	0,057	0.023	0.046	2410	18×31.5
	8200	0.053	0.02	0.04	2970 2680	16×40 18×35.5
	10000	0.033	0.02	0.038	3010	18×35.5
	56	3.791	0.65	1.3	175	5×11.5
	82	2,589	0.46	0.92	235	5×15
	120	1.769	0.3	0.6	290 400	6.3×11.5 6.3×15
	270	0.786	0.17	0.34	501	8×11.5
16	330	0.643	0.13	0.26	575	8×16
(20) 1C		0.643	0.12	0.24	625	10×12.5
	390 470	0.544	0.095	0.19	795 760	10×16 8×20
	770	0.312	0.065	0.13	1010	10×20
	680	0.012	0.000	0.10	1010	10 \ 20

U _g (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Max Imp 20°C, 100kHz	Max Imp -10°C, 100kHz	Rated Ripple Current 105°C, 100kHz	Size ФD x L
(V)	(µF)	(Ω)	(Ω)	(Ω)	(mArms)	(mm)
	1000	0.177	0.045	0.09	1430	10×30
	1200	0,177	0.042	0.084	1400	12.5×20
	1 500	0.142	0.038	0.076	1690	12.5×25
	1500	0.142	0.046	0.092	1340	16×15 18×15
	2200	0.109	0.032	0.064	1950	12.5×30
	2200	0.109	0.034	0.068	1730	16×20
16	2700	0.088	0.028	0.056	2200	12.5×35 16×25
(20) 1C	2700	0.088	0.03	0.06	1870	18×20
,0	3300	0.08	0.026	0.052	2390	12.5×40
	3900	0.068	0.025	0.05	2350	16×31.5
		0.068	0.027	0.054	2160 2550	18×25 16×35.5
	4700	0.062	0.023	0.046	2450	18×31.5
	5600	0.057	0.02	0.04	2900	16×40
	6800	0.051	0.02	0.04	2730	18×35.5
	8200 39	0.049 4.763	0.019	0.038	3060 175	18×40 5×11.5
	56	3.317	0.46	0.92	235	5×15
	82	2.266	0.3	0.6	290	6.3×11.5
	120	1.548	0.2	0.4	400	6.3×15
		0.844	0.17	0.34	503 575	8×11.5 8×16
	220	0.844	0.12	0.24	629	10×12.5
	270	0.688	0.095	0.19	795	10×16
	330	0.563	0.095	0.19	751 1010	8×20 10×20
	470	0.395	0.065	0.13	1010	12.5×15
	560	0.332	0.055	0.11	1190	10×25
		0.227	0.045	0.09	1440	10×30
	820	0.227	0.042	0.084	1400	12.5×20 16×15
0.5	1000	0.186	0.038	0.076	1690	12.5×25
(32)	1200	0.155	0.043	0.086	1500	18×15
1E	1500	0.124	0.032	0.064	1950	12.5×30
		0.124	0.034	0.068	1730 2200	16×20 12.5×35
	1800	0.103	0.028	0.056	2070	16×25
		0.103	0.03	0.06	1890	18×20
	2200	0.097	0.026	0.052	2390	12.5×40 16×31.5
	2700	0.079	0.025	0.05	2350 2180	18×25
	3300	0.072	0.022	0.044	2550	16×35.5
	3300	0.072	0.023	0.046	2470	18×31.5
	3900	0.061	0.02	0.04	2900 2740	16×40
	4700	0.061	0.02	0.038	3070	18×35.5 18×40
	27	5.898	0.65	1.3	175	5×11.5
	39	4.083	0.46	0.92	235	5×15
	56 82	2.843 1.942	0.3	0.6	290 400	6.3×11.5 6.3×15
	120	1.327	0.17	0.34	501	8×11.5
	150	1.062	0.12	0.24	625	10×12.5
	180	0.885	0.13	0.26	575	8×16
	220	0.885	0.095	0.19	795 760	10×16 8×20
		0.724	0.065	0.13	1010	10×20
	330	0.483	0.065	0.13	1010	12.5×15
35	390	0.408	0.055	0.11	1190	10×25
(44)	560	0.284	0.045	0.09	1450	10×30 12.5×20
1∨	550	0.284	0.042	0.092	1360	16×15
	680	0.234	0.038	0.076	1690	12.5×25
	200	0.234	0.043	0.086	1520	18×15
	1000	0.159	0.032	0.064	1950 1730	12.5×30 16×20
				0.056		12.5×35
		0.133	0.028	0.000	2200	12.0 7.00
	1200	0.133	0.028	0.056	2070	16×25 18×20

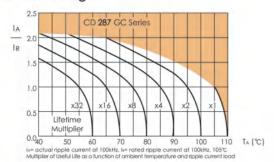


Ratings for CD 287 Series

U _R (Surge Voltage) Code	Rated Capa- citance	Max ESR 20°C, 120Hz	Max Imp 20℃, 100kHz	Max Imp -10℃, 100kHz	Rated Ripple Current 105°C, 100kHz	Size ФD x L
(V)	(µF)	(Ω)	(Ω)	(Ω)	(mArms)	(mm)
	1800	0.088	0.025	0.050	2350	16×31.5
35	2000	0.088	0.027	0.054	2200 2550	18×25 16×35.5
(44)	2200	0.084	0.023	0.046	2490	18×31.5
1∨	2700	0.069	0.020	0.040	2900 2770	16×40 18×35.5
	3300	0.064	0.019	0.038	3110	18×40
	0.47	282.333 132.696	3.9	7.8	22 36	5×11.5 5×11.5
	2.2	60.317	3.0	6.0	54	5×11.5
	3.3	40.211	2.6	5.2	63	5×11.5
	10	28.233 13.270	1.4	2.8	75 110	5×11.5
	18	7.372	0.95	1.9	120	5×11.5
	27	4.915	0.55	1.1	135	5×15
	39 56	3.402 2.370	0.36	0.72	148 153	6.3×11.5 6.3×15
	68	1.951	0.20	0.40	360	8×11.5
	82	1.618	0.18	0.36	460	8×16
	100	1.618	0.18	0.36	443 553	10×12.5
	120	1.106	0.13	0.26	670	8×20
	180	0.737	0.095	0.19	676	10×20
50 (63)	220	0.737	0.105	0.21	745 876	12.5×15 10×25
1H	220	0.402	0.065	0.13	1010	10×30
	330	0.402	0.070	0.14	979	12.5×20
		0.402	0.075	0.15	982 1180	16×15 12.5×25
	470	0.282	0.058	0.116	1180	18×15
	560	0.237	0.050	0.1	1310	12.5×30
	680	0.195	0.046	0.092	1470 1210	12.5×35 16×20
		0.162	0.044	0.088	1590	12.5×40
	820	0.162	0.048	0.096	1490	16×25
		0.162	0.046	0.092	1450 1890	18×20 16×31.5
	1000	0.133	0.040	0.08	1720	18×25
	1200	0.111	0.032	0.064	2140	16×35.5
	1500	0.088	0.026	0.052	2410 1970	16×40 18×31.5
	1800	0.074	0.025	0.050	2310	18×35.5
	2200	0.072	0.024	0.048	2530	18×40
	12	9.952 6.635	0.85	3.6 2.6	120	5×11.5 5×15
	27	4.423	0.55	1.7	148	6.3×11.5
	39	3.062	0.38	1.1	153	6.3×15
	47 56	2.541	0.32	0.96	360 448	8×11.5 10×12.5
	68	1.756	0.24	0.72	469	8×16
	82	1.756	0.17	0.51	553	10×16
	120	0.995	0.17	0.51	682 676	8×20 10×20
	150	0.796	0.10	0.30	876	10×25
	180	0.796	0.11	0.33	745 1020	12.5×15
		0.543	0.085	0.26	979	10×30 12.5×20
63	220	0.543	0.080	0.24	928	16×15
(79)	270 330	0.442	0.065	0.20	1180 1200	12.5×25 18×15
11		0.306	0.055	0.20	1310	12.5×30
	390	0.306	0.057	0.17	1210	16×20
	470	0.254	0.048	0.14	1470	12.5×35
	4/0	0.254	0.052	0.16	1490 1460	16×25 18×20
	560	0.213	0.042	0.13	1590	12.5×40
	680	0.176	0.042	0.13	1890	16×31.5
	10.00	0.176	0.050	0.15	1740 2140	18×25 16×35.5
	820	0.146	0.042	0.13	1990	18×31.5
					A 77 A A	W 40 1 1 1 W
	1000	0.119	0.032	0.096	2410 2340	16×40 18×35.5

U _R (Surge Voltage) Code	Rated Capa- citance	Max ESR 20℃, 120Hz	Max Imp 20℃, 100kHz	Max Imp -10℃, 100kHz	Rated Ripple Current 105°C, 100kHz	Size ФD x L
(V)	(µF)	(Ω)	(Ω)	(Ω)	(mArms)	(mm)
	5.6	18.957	1.9	7.6	57	5×11.5
	8,2	12.946	1.3	5.2	74	5×15
	12	8.846	1.1	4.4	78	6.3×11.5
	18	5.898	0.62	2.5	85	6.3×15
	22	4.825	0.53	2.1	275	8×11.5
	27	3.932	0.47	1.9	319	10×12.5
	33	3.217	0.35	1.4	360	8×16
	33	3.217	0.32	1.3	424	10×16
	39	2.722	0.27	1.1	490	8×20
	56	1.896	0.25	1.0	499	10×20
	68	1.561	0.18	0.72	634	10×25
	00	1.561	0.20	0.80	613	12.5×15
	100	1.062	0.15	0.60	739	10×30
100	100	1.062	0.13	0.52	805	12.5×20
(125)	120	0.885	0.11	0.44	857	12.5×25
2A	120	0.885	0.13	0.50	706	16×15
	150	0.708	0.12	0.48	871	18×15
	180	0.590	0.090	0.36	1120	12.5×30
	100	0.590	0.11	0.44	916	16×20
	220	0.483	0.075	0.30	1240	12.5×35
	220	0.483	0.081	0.32	1290	16×25
	270	0.393	0.060	0.24	1330	12.5×40
	2/0	0.393	0.085	0.34	1170	18×20
	330	0.322	0.059	0.23	1630	16×31.5
	330	0.322	0.071	0.28	1500	18×25
	390	0.272	0.052	0.21	1750	16×35.5
	370	0.272	0.058	0.23	1630	18×31.5
	470	0.226	0.045	0.18	1920	16×40
	560	0.190	0.054	0.22	1920	18×35.5
	680	0.156	0.041	0.16	2100	18×40

Lifetime Diagram



Typical Curves

