

CD 295 Series

- 85℃ 5000小时
- 5000h at 85℃
- 85℃长寿命

• 高纹波

• 适用于长寿命工业电源类产品

• Long Life at 85℃

• High Ripple Current

• Long LifeGeneral industrial Electronice

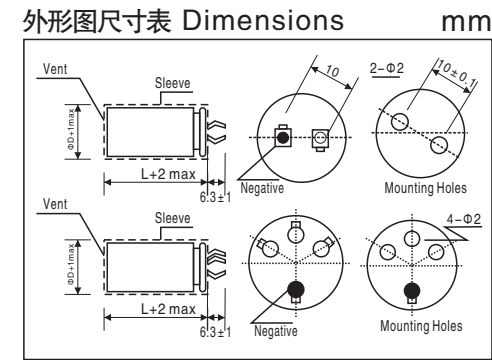
项目 Item	特性 Characteristics							
使用温度范围 (°C) Operating Temperature Range	-40~+85				-25~+85			
额定电压范围 (V) Voltage Range	10~400				450~500			
标称电容量范围 () Capacitance Range	39~47000							
标称电容量允许偏差 Capacitance Tolerance (20℃,120Hz)	± 20%							
漏电流(μA) Leakage Current (μ A)	1 ≤ 0.01CV或5mA, 取较小者 (20℃, 5分钟) 1 ≤ 0.01CV or 5mA whichever issmaller (at 20℃, after 5minuter) C:标称电容器 (μ F) V: 额定电压 (V) C:Nominal Capacitance(μ F) V:Rated Voltage(V)							
损耗角正切值(tg δ) Dissipation Factor (20℃,120Hz)	额定电压 Rated Voltage(V)	10~16	25	35	50	63~100	160~400	450~500
	损耗角正切值 Tan δ (max)	0.50	0.40	0.35	0.30	0.20	0.15	0.20
低温特性 Stability at Low Temperature (Impedance Ratio at 120Hz)								
	额定电压 Rated Voltage(V)	10	16~35	50~100	160~200	250~400	450~500	
	Z-25℃/Z+20℃	5	4	3		4		
	Z-40℃/Z+20℃	18	15	10	6	8	—	

项目 Item	使用寿命 Useful Life		负载寿命 Load Life	耐久试验 Endurance Test	高温贮存 shelf Life
寿命 Lifetime	5000h		5000h	5000h	1000h
漏电流 Leakage Current	≤ 初始规定值 Not more than specitied value		≤ 初始规定值 Not more than specitied value	≤ 初始规定值 Not more than specitied value	≤ 初始规定值 Not more than specitied value
容量变化率 Capacitance Change	初始值 ± 30%以内 Within ± 30% of initial Value		初始值 ± 20%以内 Within ± 20% of initial Value	初始值 ± 20%以内 Within ± 20% of initial Value	初始值 ± 20%以内 Within ± 20% of initial Value
损耗变化率 Dissipation Factor	≤ 初始规定值的3倍 Not more than 300% of specified value		≤ 初始规定值的2倍 Not more than 200% of specified value	≤ 初始规定值的1.3倍 Not more than 130% of specified value	≤ 初始规定值的2倍 Not more than 200% of specified value
使用条件 Condition 使用电压 Applied Voltage 使用电流 Applied Current 使用温度 Applied Temperature	U _R I _R 85℃	U _R 1.4 × I _R 40℃	U _R I _R 85℃	U _R I _R =0 85℃	U _R =0 I _R =0 85℃ 试验后： 施加额定电压30分 钟后恢复24小时 After test: UR to be applied for 30min >24h before measurement

CD 295 系列
Ratings for CD 295 Series

Table with 6 columns: UR (Surge Voltage) Code, Rated Capacitance, Max ESR 20°C 120HZ, Typ ESR 20°C 120HZ, Rated Ripple Current 85°C 120HZ, Size φ DXL. Rows include series 10 (13) 1A, 16 (20) 1C, 25 (32) 1E, and 35 (44) 1V with various capacitance and size options.

Table with 6 columns: UR (Surge Voltage) Code, Rated Capacitance, Max ESR 20°C 120HZ, Typ ESR 20°C 120HZ, Rated Ripple Current 85°C 120HZ, Size φ DXL. Rows include series 35 (44) 1V, 50 (63) 1H, and 63 (79) 1J with various capacitance and size options.



频率系数 Frequency Coefficient. Table with 6 columns: Rated voltage (V), Frequency, 50Hz, 120Hz, 1KHz, 10KHz, 100KHz. Rows show coefficients for voltage ranges ≤50, 63~100, and ≥160.

CD 295 系列

Ratings for CD 295 Series

UR (Surge Voltage) Code	Rated Capa- cittance	Max ESR 20°C 120HZ	Typ ESR 20°C 120HZ	Rated Ripple Current 85°C 120HZ	Size Φ DXL
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
63 (79) 1J	4700	57	33	2.9	30×30
	5600	47	33	3.1	25×45
		47	33	3.2	30×35
		47	33	3.3	35×30
	6800	39	27	3.6	30×40
		39	27	3.7	35×35
	8200	32	23	3.7	30×30
		32	23	3.8	35×40
80 (100) 1K	10000	27	19	4.3	35×45
	12000	22	16	4.8	35×50
	1000	265	186	1.3	22×25
	1200	221	155	1.5	22×30
	1500	177	124	1.7	25×25
		147	103	1.9	22×35
	1800	147	103	1.9	25×30
		121	84	2.1	22×40
	2200	121	84	2.2	25×35
		121	84	2.2	30×25
		98	69	2.5	22×50
	2700	98	69	2.5	25×40
		98	69	2.5	30×30
		98	69	2.5	25×25
	3300	80	56	2.8	25×45
		80	56	2.8	30×35
	3900	68	48	3.1	25×50
		68	48	3.2	30×40
	4700	68	48	3.2	35×30
		57	40	3.6	30×45
100 (125) 2A	5600	47	33	3.8	30×50
		47	33	3.8	35×40
	6800	22	16	4.1	35×50
	680	390	273	1.1	22×25
	820	324	227	1.2	22×30
	1000	265	186	1.4	25×25
	1200	221	155	1.6	22×35
		221	155	1.6	25×30
	1500	177	124	1.8	22×40
		177	124	1.7	25×35
		177	124	1.8	30×25
	1800	147	103	2.1	22×50
		147	103	2	25×40
		147	103	2.1	30×30
		147	103	2.2	35×25
	2200	121	84	2.2	25×45
		121	84	2.3	30×35
		121	84	2.5	35×30
	2700	98	69	2.6	25×50
		98	69	2.7	30×40
	3300	80	56	3	30×45
		80	56	3.1	35×35
	3900	68	48	3.4	30×50
		68	48	3.4	35×40
	4700	57	40	4	35×50
160 (200) 2C	220	905	633	1	22×25
	270	737	516	1.1	22×25
	330	603	422	1.3	22×25
	390	510	357	1.5	22×30
	470	510	357	1.5	25×25
		424	297	1.7	25×25
	560	355	249	1.9	22×35
		355	249	1.9	25×30
		355	249	2	30×25
	680	293	205	2.1	22×40
		293	205	2.2	25×35
	820	243	170	2.5	22×50

UR (Surge Voltage) Code	Rated Capa- cittance	Max ESR 20°C 120HZ	Typ ESR 20°C 120HZ	Rated Ripple Current 85°C 120HZ	Size Φ DXL
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
160 (200) 2C	820	243	170	2.4	25×40
		243	170	2.5	30×30
		243	170	2.4	35×25
	1000	199	139	2.7	25×45
		199	139	2.8	30×35
		199	139	2.7	35×30
	1200	166	116	3.1	25×50
		166	116	3.2	30×40
		166	116	3	35×35
	1500	133	93	3.7	30×45
		133	93	3.5	35×40
		1800	111	77	3.9
2200	91	63	4.5	35×50	
180 (225) 2K	270	737	516	1.2	22×25
	330	603	422	1.4	22×30
	390	510	357	1.5	25×25
	470	424	296	1.7	22×35
		424	296	1.8	25×30
		424	296	1.9	30×25
	560	355	249	1.9	22×40
		355	249	2	25×35
		293	205	2.3	22×50
	680	293	205	2.2	25×40
		293	205	2.3	30×30
		293	205	2.3	35×25
	820	243	170	2.5	25×45
		243	170	2.6	30×35
		243	170	2.5	35×30
	1000	199	139	2.9	25×50
		19	139	2.9	30×40
	1200	166	116	3.3	30×45
		166	116	3.1	35×35
	1500	133	93	3.6	35×45
111		77	4.1	35×50	
200 (250) 2D	220	905	633	1.1	22×25
	270	737	516	1.2	22×25
	330	603	422	1.4	22×30
		603	422	1.4	25×25
	390	510	357	1.6	22×35
		510	357	1.6	25×30
	470	424	296	1.8	22×40
		424	296	1.9	30×25
	560	355	249	2	22×45
		355	249	2	25×35
		355	249	2.1	30×30
	680	355	249	2	35×25
		293	205	2.3	25×40
		293	205	2.4	30×35
	820	243	170	2.6	25×50
		243	170	2.7	30×40
		243	170	2.5	35×30
	1000	199	139	3.1	30×45
		199	139	2.8	35×35
	1200	166	116	3.4	30×50
166		116	3.2	35×40	
1500	133	93	3.8	35×50	
250 (300) 2E	180	1106	774	0.94	22×25
	220	905	633	1.1	22×30
		905	633	1.1	25×25
	270	737	516	1.2	22×35
		603	422	1.4	22×40
		603	422	1.4	25×30
	330	603	422	1.5	30×25
		510	357	1.6	22×45
		510	357	1.6	22×35
470	424	296	1.8	22×50	

CD 295 系列

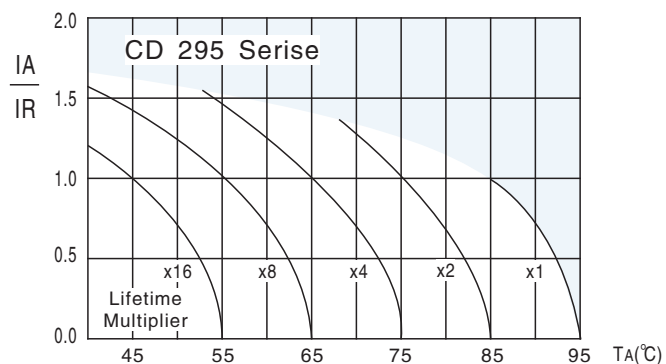
Ratings for CD 295 Series

UR (Surge Voltage) Code	Rated Capa- cittance	Max ESR 20°C 120HZ	Typ ESR 20°C 120HZ	Rated Ripple Current 85°C 120HZ	Size Φ DXL	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	
250 (300) 2E	470	424	296	1.8	25×40	
		424	296	1.8	30×30	
		424	296	1.9	35×25	
	560	355	249	2	25×45	
		355	249	2	30×35	
		293	205	2.3	30×40	
	680	293	205	2.4	35×30	
		243	170	2.6	30×45	
	820	243	170	2.6	35×35	
		199	139	3	35×40	
	1200	166	116	3.4	35×45	
		100	1990	1393	0.67	22×25
315 (365) 2F	120	1659	1161	0.75	22×30	
		1327	929	0.85	22×30	
	150	1327	929	0.85	25×25	
		1106	774	0.96	22×35	
	180	1106	744	0.96	25×30	
		905	633	1.1	22×40	
	220	905	633	1.1	25×30	
		905	633	1.1	25×30	
		737	516	1.2	22×45	
	270	737	516	1.3	25×40	
		737	516	1.3	30×30	
		737	516	1.3	35×25	
	330	603	422	1.4	25×45	
		603	422	1.4	30×35	
	390	510	357	1.6	25×50	
		510	357	1.6	30×40	
		510	357	1.6	35×30	
	470	424	296	1.8	30×45	
		424	296	1.8	35×35	
	500	355	249	2	30×50	
		355	249	2	35×40	
	350 (400) 2V	680	293	205	2.3	35×45
		82	2427	1699	0.64	22×25
		100	1990	1393	0.72	22×25
1990			1161	0.82	22×30	
120		1659	1161	0.82	25×25	
		1327	929	0.94	22×35	
150		1327	929	0.94	25×30	
		1106	774	1.1	22×40	
180		1106	744	1.1	30×25	
		905	633	1.2	22×45	
220		905	633	1.2	25×35	
		737	633	1.2	30×30	
		737	633	1.3	35×25	
270		737	516	1.4	25×45	
		737	516	1.4	30×35	
390		510	357	1.7	30×40	
		510	357	1.8	35×40	
470		424	296	2	30×45	
		424	296	2	35×40	
560		355	249	2.3	35×45	
680		293	205	2.6	35×50	
330		603	422	1.6	25×50	
		603	422	1.6	35×30	
400 (400) 2G		68	2927	2049	0.55	22×25
	82	2427	1699	0.6	22×25	
	100	1990	1393	0.7	22×30	
		1990	1393	0.7	25×25	
	120	1659	1161	0.79	22×35	
		1327	929	0.9	22×40	
		1327	929	0.89	25×30	
	150	1327	929	0.95	30×25	
		1106	774	1	22×45	
		1106	744	1	25×35	

UR (Surge Voltage) Code	Rated Capa- cittance	Max ESR 20℃ 120HZ	Typ ESR 20℃ 120HZ	Rated Ripple Current 85℃ 120HZ	Size Φ DXL	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	
400 (400) 2G	180	1106	774	1.1	30×30	
		1106	774	1.2	35×25	
	220	905	633	1.1	22×50	
		905	633	1.2	25×40	
		905	633	1.2	30×35	
	270	737	516	1.3	25×45	
		737	516	1.4	30×40	
		737	516	1.6	35×30	
	330	603	422	1.6	30×45	
		603	422	1.7	35×35	
	390	510	357	1.8	35×40	
		510	357	1.8	35×40	
450 (500) 2W	470	424	296	2.1	30×50	
	560	355	249	2.3	35×50	
		68	2927	2049	0.27	22×30
	82	2427	1699	0.64	22×35	
	100	1990	1393	0.72	22×35	
		1990	1393	0.73	25×30	
	120	1659	1161	0.8	22×40	
		1659	1161	0.83	25×35	
	150	1327	929	0.95	22×50	
		1327	929	0.95	25×40	
		1327	929	0.98	30×30	
	180	1106	774	1.1	25×45	
1106		744	1.1	30×35		
1106		744	1.2	35×25		
500 (550) 2H	220	905	633	1.2	25×50	
		905	633	1.3	30×40	
		905	633	1.3	35×30	
	270	737	516	1.4	30×45	
		737	516	1.5	35×35	
	330	603	423	1.7	30×50	
		390	510	357	1.9	35×45
	470	424	296	2.2	35×50	
	500 (550) 2H	100	1990	1592	0.9	25×30
			1990	1592	0.88	30×25
		120	1658	1327	1.0	25×35
			1658	1327	1.0	30×30
1658			1327	0.95	35×25	
150		1327	1062	1.2	25×40	
		1327	1062	1.2	30×35	
180		1106	885	1.4	30×40	
		1106	885	1.3	35×30	
220		905	724	1.6	30×45	
		905	724	1.5	35×35	
270		737	590	1.8	30×50	
	737	590	1.7	35×40		
330	603	483	2.0	30×50		
	603	483	1.9	35×45		
390	511	409	2.3	35×50		
470	424	339	2.5	35×60		

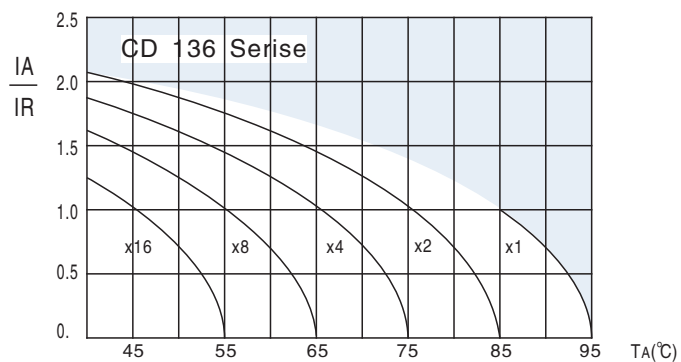
寿命曲线 Lifetime Diagram

Lifetime Diagram $U_r \geq 160V$



I_A =actual ripple current 120HZ. I_R =rated ripple current at 120HZ, 85°C Multiplier of Useful Life as a function of ambient temperature and ripple current load

Lifetime Diagram $U_r < 160V$



I_A =actual ripple current 120HZ. I_R =rated ripple current at 120HZ, 85°C Multiplier of Useful Life as a function of ambient temperature and ripple current load