

CD 299 PG SERIES



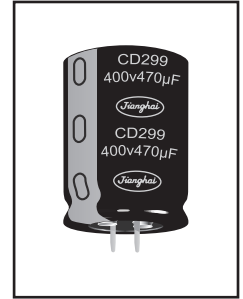
7000h at 105°C

- Extended Lifetime at 105°C
- High Ripple Current
- High Professional Industrial Power Supplies

CD 299 PG

↑ Longer Life
↑ higher current

CD 297 BB

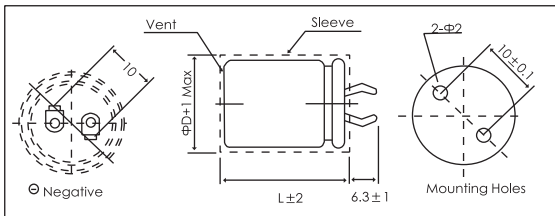


Items	Characteristics	
Operating Temperature Range (°C)	-40 ~ +105	-25 ~ +105
Voltage Range (V)	160 ~ 250	315 ~ 500
Capacitance Range (µF)	39 ~ 2200	
Capacitance Tolerance (20°C, 120Hz)	± 20%	
Leakage Current (µA)	After 5 minutes at 20°C application of rated voltage, leakage current is not more than 0.01CV or 1.5mA, whichever is smaller. C: Nominal Capacitance (µF) V: Rated Voltage (V)	
Dissipation Factor (20°C, 120Hz)	Rated Voltage (V)	160 180 200 250 315 350 400 450~500
	Tan δ (max)	0.15
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	≤ 250 315 ~ 500
	Z _{-25°C} / Z _{+20°C}	3 8
	Z _{-40°C} / Z _{+20°C}	12 -

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	9000h	>200000h	7000h	7000h	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 initial value	Within ± 20% of initial value	Within ± 20% of initial value
Dissipation Factor	Not more than 300% of specified value		Not more than 200% of specified value	Not more than 200% of specified value	Not more than 200% of specified value
Condition: Applied Voltage Applied Current Applied Temperature	U _R I _R 105°C	U _R 1.4 x I _R 50°C	U _R I _R 105°C	U _R I _R = 0 105°C	U _R = 0 I _R = 0 105°C After test: U _R to be applied for 30min >24h before measurement

Dimensions

mm



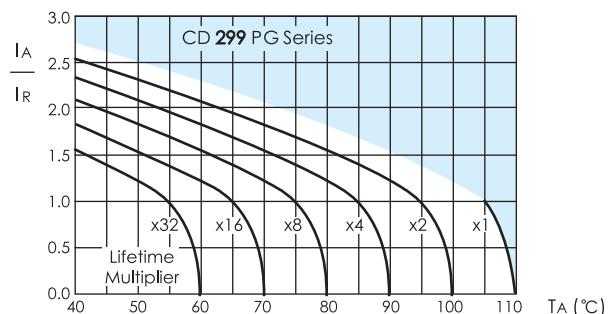
Temperature Coefficient

Temperature(°C)	+40	+55	+70	+80	+105
Coefficient	2.7	2.5	2.1	1.7	1.0

Frequency Coefficient

Rated Voltage (V)	Frequency					
	50/60Hz	120Hz	300Hz	1kHz	10kHz	>40kHz
160 ~ 250	0.80	1.00	1.17	1.30	1.45	1.50
≥315	0.80	1.00	1.16	1.30	1.43	1.45

Lifetime Diagram



IA = actual ripple current at 120Hz, IR = rated ripple current at 120Hz, 105°C
Multiplier of Useful Life as a function of ambient temperature and ripple current load

更多规格书[点击查看](#)[下载](#)



服务热线: 0755-88852201 VX: 13410723853

SNAP-IN/LUG

Ratings for CD 299 PG Series

U _r (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-	
160 (200) 2C	270	737	516	1.1	22×25	ECS2CPG271M□□220025	
	330	603	422	1.2	22×30	ECS2CPG331M□□220030	
	390	510	357	1.3	25×25	ECS2CPG391M□□250025	
		424	296	1.4	22×35	ECS2CPG471M□□220035	
	470	424	296	1.4	25×30	ECS2CPG471M□□250030	
		355	249	1.5	22×40	ECS2CPG561M□□220040	
	560	355	249	1.5	30×25	ECS2CPG561M□□300025	
		293	205	1.7	22×45	ECS2CPG681M□□220045	
	680	293	205	1.7	25×35	ECS2CPG681M□□250035	
		293	205	1.7	30×30	ECS2CPG681M□□300030	
	820	243	170	2	25×40	ECS2CPG821M□□250040	
	1000	199	139	2.2	25×45	ECS2CPG102M□□250045	
		199	139	2.2	30×35	ECS2CPG102M□□300035	
	1200	166	116	2.3	25×50	ECS2CPG122M□□300040	
		166	116	2.3	30×40	ECS2CPG122M□□300040	
	1500	166	116	2.3	35×35	ECS2CPG122M□□350035	
		133	93	2.5	30×45	ECS2CPG152M□□300045	
	1800	133	93	2.5	35×40	ECS2CPG152M□□350040	
		111	77	2.7	30×50	ECS2CPG182M□□300050	
	2200	111	77	2.7	35×45	ECS2CPG182M□□350045	
		91	63	2.9	35×50	ECS2CPG222M□□350050	
	180 (225) 2K	220	905	633	1	22×25	ECS2KPG221M□□220025
		330	603	422	1.2	22×30	ECS2KPG331M□□220030
		470	603	422	1.2	25×25	ECS2KPG331M□□250025
424			296	1.4	22×35	ECS2KPG471M□□220035	
560		424	296	1.4	25×30	ECS2KPG471M□□250030	
		424	296	1.4	30×25	ECS2KPG471M□□300025	
680		355	249	1.5	22×40	ECS2KPG561M□□220040	
		355	249	1.5	25×35	ECS2KPG561M□□250035	
820		293	205	1.7	22×50	ECS2KPG681M□□220050	
		293	205	1.7	25×40	ECS2KPG681M□□250040	
1000		293	205	1.7	30×30	ECS2KPG681M□□300030	
		243	170	2	25×45	ECS2KPG821M□□250045	
1200		243	170	2	30×35	ECS2KPG821M□□300035	
		243	170	2	35×30	ECS2KPG821M□□350030	
1500		199	139	2.2	30×40	ECS2KPG102M□□300040	
		166	116	2.3	30×45	ECS2KPG122M□□300045	
1800		166	116	2.3	35×35	ECS2KPG122M□□350035	
		133	93	2.5	30×50	ECS2KPG152M□□300050	
2200		133	93	2.5	35×40	ECS2KPG152M□□350040	
		111	77	2.7	35×45	ECS2KPG182M□□350045	
200 (250) 2D		220	91	63	2.9	35×50	ECS2KPG222M□□350050
		270	737	516	1.1	22×30	ECS2DPG271M□□220030
		390	737	516	1.1	25×25	ECS2DPG271M□□250025
			510	357	1.3	22×35	ECS2DPG391M□□220035
	470	510	357	1.3	25×30	ECS2DPG391M□□250030	
		510	357	1.3	30×25	ECS2DPG391M□□300025	
	560	424	296	1.4	22×40	ECS2DPG471M□□220040	
		424	296	1.4	25×35	ECS2DPG471M□□250035	
	680	424	296	1.4	30×30	ECS2DPG471M□□300030	
		355	249	1.5	22×45	ECS2DPG561M□□220045	
	820	293	205	1.7	25×40	ECS2DPG681M□□250040	
		293	205	1.7	30×35	ECS2DPG681M□□300035	
	1000	243	170	2	25×50	ECS2DPG821M□□250050	
		243	170	2	30×40	ECS2DPG821M□□300040	
	1200	243	170	2	35×30	ECS2DPG821M□□350030	
		199	139	2.2	30×45	ECS2DPG102M□□300045	
	1500	199	139	2.2	35×35	ECS2DPG102M□□350035	
		166	116	2.3	30×50	ECS2DPG122M□□300050	
	1800	166	116	2.3	35×40	ECS2DPG122M□□350040	
		133	93	2.5	35×50	ECS2DPG152M□□320035	
	250 (300) 2E	180	1106	774	0.9	22×30	ECS2EPG181M□□220030
		220	905	633	1	25×25	ECS2EPG221M□□250025
		270	737	516	1.1	22×35	ECS2EPG271M□□220035
			737	516	1.1	25×30	ECS2EPG271M□□250030
330		737	516	1.1	30×25	ECS2EPG271M□□300025	
		603	422	1.2	22×40	ECS2EPG331M□□220040	
390		603	422	1.2	25×35	ECS2EPG331M□□250035	
		510	357	1.3	22×45	ECS2EPG391M□□220045	
470		510	357	1.3	25×40	ECS2EPG391M□□250040	
		510	357	1.3	30×30	ECS2EPG391M□□300030	
560		424	296	1.4	25×45	ECS2EPG471M□□250045	
		424	296	1.4	30×35	ECS2EPG471M□□300035	
680		424	296	1.4	35×30	ECS2EPG471M□□350030	
		355	249	1.5	25×50	ECS2EPG561M□□250050	
820		293	205	1.7	30×45	ECS2EPG681M□□300045	
		293	205	1.7	35×35	ECS2EPG681M□□350035	
1000		243	170	2	30×50	ECS2EPG821M□□300050	
		243	170	2	35×40	ECS2EPG821M□□350040	
1200		199	139	2.2	35×45	ECS2EPG102M□□350045	
		166	116	2.3	35×50	ECS2EPG122M□□350050	
315 (365) 2F		82	2427	1335	0.64	22×25	ECS2FPG820M□□220025
		100	1990	1095	0.69	22×30	ECS2FPG101M□□220030
120		1659	912	0.75	25×25	ECS2FPG121M□□250025	

U _r (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
315 (365) 2F	150	1327	730	0.82	22×35	ECS2FPG151M□□220035
		1327	730	0.82	25×30	ECS2FPG151M□□250030
		1327	730	0.82	30×25	ECS2FPG151M□□300025
	180	1106	608	0.9	22×40	ECS2FPG181M□□220040
		1106	608	0.9	25×35	ECS2FPG181M□□250035
		905	498	1	22×45	ECS2FPG221M□□220045
	220	905	498	1	25×40	ECS2FPG221M□□250040
		905	498	1	30×30	ECS2FPG221M□□300030
		737	406	1.1	25×45	ECS2FPG271M□□250045
	270	737	406	1.1	30×35	ECS2FPG271M□□300035
		737	406	1.1	35×30	ECS2FPG271M□□350030
		603	332	1.2	25×50	ECS2FPG331M□□250050
	330	603	332	1.2	30×40	ECS2FPG331M□□300040
		510	281	1.3	30×45	ECS2FPG391M□□300045
		510	281	1.3	35×35	ECS2FPG391M□□350035
	470	424	233	1.4	30×50	ECS2FPG471M□□300050
		424	233	1.4	35×40	ECS2FPG471M□□350040
		560	355	1.96	35×45	ECS2FPG561M□□350045
	680	293	161	1.7	35×50	ECS2FPG681M□□350050
		2427	1335	0.64	22×25	ECS2VPG820M□□220025
	100	1990	1095	0.69	22×30	ECS2VPG101M□□220030
		1990	1095	0.69	25×25	ECS2VPG101M□□250025
	120	1659	912	0.75	22×35	ECS2VPG121M□□220035
		1659	912	0.75	25×30	ECS2VPG121M□□250030
150	1327	730	0.82	22×40	ECS2VPG151M□□220040	
	1327	730	0.82	30×25	ECS2VPG151M□□300025	
	1106	608	0.9	22×45	ECS2VPG181M□□220045	
	1106	608	0.9	25×35	ECS2VPG181M□□250035	
	1106	608	0.9	30×30	ECS2VPG181M□□300030	
	905	498	1	22×50	ECS2VPG221M□□220050	
220	905	498	1	25×40	ECS2VPG221M□□250040	
	737	406	1.1	25×50	ECS2VPG271M□□250050	
270	737	406	1.1	30×35	ECS2VPG271M□□300035	
	737	406	1.1	35×30	ECS2VPG271M□□350030	
330	603	332	1.2	30×45	ECS2VPG331M□□300045	
	603	332	1.2	35×35	ECS2VPG331M□□350035	
390	510	281	1.3	30×50	ECS2VPG391M□□300050	
	510	281	1.3	35×40	ECS2VPG391M□□350040	
560	355	196	1.5	35×50	ECS2VPG561M□□350050	
	3554	1955	0.51	22×25	ECS2WPG560M□□220025	
68	2927	1610	0.56	22×30	ECS2WPG680M□□220030	
	2927	1610	0.56	25×25	ECS2WPG680M□□250025	
82	2427	1335	0.64	22×35	ECS2WPG820M□□220035	
100	1990	1095	0.69	25×30	ECS2WPG101M□□250030	
120	1659	912	0.75	22×40	ECS2WPG121M□□220040	
	1659	912	0.75	25×35	ECS2WPG121M□□250035	
150	1659	912	0.75	30×25	ECS2WPG121M□□300025	
	1327	730	0.82	22×50	ECS2WPG151M□□220050	
180	1327	730	0.82	25×40	ECS2WPG151M□□250040	
	1327	730	0.82	30×30	ECS2WPG151M□□300030	
220	1106	608	0.9	25×45	ECS2WPG181M□□250045	
	1106	608	0.9	30×35	ECS2WPG181M□□300035	
270	905	498	1	25×50	ECS2WPG221M□□250050	
	905	498	1	30×40	ECS2WPG221M□□300040	
330	905	498	1	35×30	ECS2WPG221M□□350030	
	737	406	1.1	30×45	ECS2WPG271M□□300045	
390	737	406	1.1	35×35	ECS2WPG271M□□350035	
	603	332	1.2	30×50	ECS2WPG331M□□300050	
470	603	332	1.2	35×40	ECS2WPG331M□□350040	
	510	281	1.3	35×45	ECS2WPG391M□□350045	
560	424	233	1.4	35×50	ECS2WPG471M□□350050	
	39	6805	3062	0.37	22×25	ECS2WPG390M□□220025
68	47	5647	2541	0.4	22×30	ECS2WPG470M□□220030
	56	4739	2133	0.47	22×35	ECS2WPG560M□□220035
82	4739	2133	0.47	25×25	ECS2WPG560M□□250025	
	3903	1756	0.53	22×40	ECS2WPG680M□□220040	
100	3903	1756	0.53	25×30	ECS2WPG680M□□250030	
	3237	1456	0.56	22×45	ECS2WPG820M□□220045	
120	3237	1456	0.56	25×35	ECS2WPG820M□□250035	
	3237	1456	0.56	30×25	ECS2WPG820M□□300025	
150	2654	1194	0.64	22×50	ECS2WPG101M□□220050	
	2654	1194	0.64	25×40	ECS2WPG101M□□250040	
180	2654	1194	0.64	30×30	ECS2WPG101M□□300030	
	2212	995	0.72	25×45	ECS2WPG121M□□250045	
220						

CD 299 PG SERIES



Ratings for CD 299 PG Series

U _r (Surge Voltage) Code	Rated Capacitance	Max ESR 20°C, 120Hz	Typ ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size ΦD x L	P/N
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	-
500 (550) 2H	47	5647	2823	0.41	22×30	ECS2HPG470M□□220030
	56	4739	2370	0.47	22×30	ECS2HBB560M□□220030
	68	3903	1951	0.54	22×35	ECS2HBB680M□□220035
		3903	1951	0.54	25×30	ECS2HBB680M□□250030
	82	3237	1618	0.62	22×40	ECS2HBB820M□□220040
		3237	1618	0.62	25×35	ECS2HBB820M□□250035
	100	2654	1327	0.67	22×45	ECS2HBB101M□□220045
		2654	1327	0.67	25×40	ECS2HBB101M□□250040
		2654	1327	0.67	30×30	ECS2HBB101M□□300030
	120	2212	1106	0.77	22×50	ECS2HBB121M□□220050
		2212	1106	0.74	25×40	ECS2HBB121M□□250040
		2212	1106	0.77	30×35	ECS2HBB121M□□300035
		2212	1106	0.80	35×30	ECS2HBB121M□□350030
	150	1769	885	0.82	25×45	ECS2HBB151M□□250045
		1769	885	0.85	30×40	ECS2HBB151M□□300040
		1769	885	0.85	35×35	ECS2HBB151M□□350035
	180	1474	737	0.98	25×50	ECS2HBB181M□□250050
		1474	737	1.01	30×45	ECS2HBB181M□□300045
	220	1206	603	1.12	30×50	ECS2HBB221M□□300050
		1206	603	1.12	35×40	ECS2HBB221M□□350040
	270	983	492	1.25	30×50	ECS2HBB271M□□300050
		983	492	1.25	35×45	ECS2HBB271M□□350045
	330	804	402	1.36	35×50	ECS2HBB331M□□350050

Customer products are available on request.

