



CD294 Series

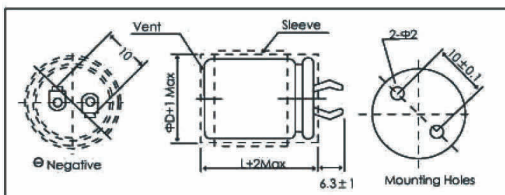
- High Temperature snap-in series
- Endurance: 2000 hours at 105°C
- Sleeve color: Silver Print in Black Sleeve



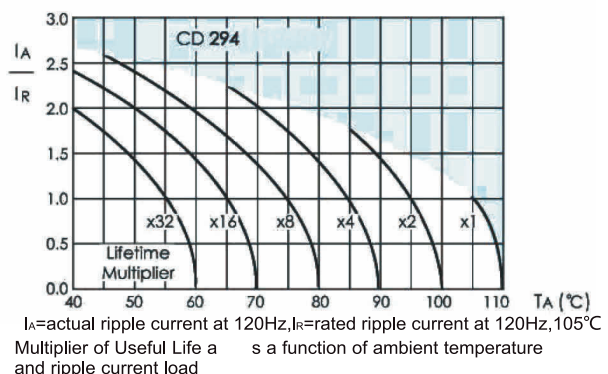
Item	Characteristics							
Operating Temperature Range(°C)	-40~+105					-25~+105		
Voltage Range(V)	16~100					160~500		
Capacitance Range (μF)	39~47000							
Capacitance Tolerance (20°C,120Hz)	±20%							
Leakage Current (μA)	After 5 minutes at 20°C application of rated voltage,leakage current is not more than 0.01 CV or 1.5mA,whichever is smaller. C:Nominal Capacitance (μF) V:Rated Voltage (V)							
Dissipation Factor (20°C,120Hz)	Rated Voltage (V)	16	25	35	50	63~100	160~400	450~500
	Tanδ(max)	0.50	0.40	0.35	0.30	0.20	0.15	0.20
Stability at Low Temperature (Impedance Ratio at 120Hz)	Rated Voltage (V)	16~100			160~200		250~500	
	Z -25°C/Z +20°C	4						
	Z -40°C/Z +20°C	15			-			

	Useful Life		Load Life	Endurance Test	Shelf Life
Lifetime	4000h	>180000h	2000h	3000h	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 Failure Rate Level	U_R I_R 105°C ≤1% Failure Rate	U_R $1.4 \times I_R$ 40°C ≤1% Failure Rate	U_R I_R 105°C guaranteed	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)



Lifetime Diagram



Frequency Coefficient

Freq.(Hz)	50Hz	120Hz	1kHz	10kHz	≥20kHz
Voltage(V)					
≤100	0.95	1.00	1.10	1.15	1.15
160~250	0.87	1.00	1.11	1.18	1.20
≥350	0.80	1.00	1.14	1.14	1.20

CD294 Series

Ratings					
V _{DC} (Surge Voltage)	Rated Capacitance	Max. ESR 20°C, 120Hz	Typ. ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size φ DxL
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
16 (20)	6800	98	68	1.6	22×25
	10000	66	46	1.99	22×30
		66	46	1.99	25×25
		55	39	2.28	22×35
	12000	55	39	2.3	25×30
		55	39	2.38	30×25
	15000	44	31	2.64	22×40
		44	31	2.68	25×35
		37	26	2.98	22×45
	18000	37	26	3.04	25×40
		37	26	3	30×30
		37	26	3.1	35×25
	22000	30	21	3.4	25×45
		30	21	3.39	30×35
		25	17	3.81	25×50
	27000	25	17	3.83	30×40
		25	17	3.74	35×30
	33000	20	14	4.3	30×45
		20	14	4.24	35×35
	39000	17	12	4.74	30×50
25 (32)	47000	14	10	5.27	35×45
	4700	113	79	1.55	22×25
	6800	78	55	1.91	22×30
		78	55	1.91	25×25
		65	45	2.14	22×35
	8200	65	45	2.16	25×30
		65	45	2.25	30×25
	10000	53	37	2.4	22×40
		53	37	2.44	25×35
		44	31	2.69	22×45
	12000	44	31	2.74	25×40
		44	31	2.7	30×30
		44	31	2.8	35×25
		35	25	3.15	25×45
	15000	35	25	3.13	30×35
		35	25	3.22	35×30
	18000	30	21	3.54	25×50
		30	21	3.54	30×40
	22000	24	17	4.24	30×45
35 (44)		24	17	3.96	35×35
	27000	20	14	4.75	35×45
	33000	16	11	5.39	35×50
	3300	141	99	1.43	22×25
	3900	119	83	1.65	22×30
	4700	99	69	1.78	25×25
		83	58	2.02	22×35
	5600	83	58	2.04	25×30
		83	58	2.12	30×25
	6800	68	48	2.28	22×40
		68	48	2.31	25×35
		57	40	2.67	22×50
	8200	57	40	2.6	25×40
		57	40	2.56	30×30
		57	40	2.78	35×25
	10000	46	33	2.92	25×45
		46	33	2.92	30×35
		39	27	3.26	25×50
	12000	39	27	3.28	30×40
50 (63)		39	27	3.2	35×30
	15000	31	22	3.74	30×45
		31	22	3.69	35×35
	18000	26	18	4.16	35×40
	22000	21	15	4.92	35×50
	1800	221	155	1.31	22×25
	2200	181	127	1.45	22×30
		147	103	1.7	22×30
	2700	147	103	1.7	25×25
		121	84	1.98	22×35
		121	84	2	25×30
		102	72	2.25	22×40
	3900	102	72	2.28	25×35
		102	72	2.22	30×25
		85	59	2.56	22×45
	4700	85	59	2.58	30×30
		85	59	2.67	35×25

Ratings						
V _{DC} (Surge Voltage)	Rated Capacitance	Max. ESR 20°C, 120Hz	Typ. ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size φ DxL	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	
50 (63)	5600	71	50	2.89	22×50	
		71	50	2.81	25×40	
		71	50	2.95	30×35	
	6800	59	41	3.37	25×50	
		59	41	3.39	30×40	
		59	41	3.31	35×30	
	8200	49	34	3.71	30×45	
		49	34	3.66	35×35	
	10000	40	28	4.09	30×50	
		40	28	4.07	35×40	
	12000	33	23	4.5	35×45	
	1200	221	155	125	22×25	
63 (79)	1800	147	103	152	22×30	
		147	103	15 2	25×25	
	2200	121	84	173	22×35	
		121	84	175	25×30	
	2700	98	69	1.97	22×40	
		98	69	1.99	25×35	
		98	69	1.93	30×25	
	3300	80	56	2.32	22×50	
		80	56	2.27	25×40	
		80	56	2.24	30×30	
		80	56	2.41	35×25	
	3900	68	48	2.54	25×45	
		68	48	2.55	30×35	
	4700	57	40	2.88	25×50	
		57	40	2.9	30×40	
		57	40	2.83	35×30	
	5600	47	33	3.28	30×45	
		47	33	3.24	35×35	
	6800	39	27	3.73	30×50	
		39	27	3.71	35×40	
	8200	32	23	4.16	35×45	
	10000	27	19	4.69	35×50	
	80 (100)	820	324	227	1.11	22×25
		1000	266	186	1.25	22×25
1200		221	155	1.39	22×30	
		221	155	1.39	25×25	
1500		177	124	1.61	22×35	
		177	124	1.62	25×30	
1800		147	103	1.83	22×40	
		147	103	1.81	30×25	
2200		121	84	2.09	22×45	
		121	84	2.01	25×35	
		121	84	2.1	30×30	
		121	84	2.17	35×25	
2700		98	69	2.43	25×45	
		98	69	2.43	30×35	
3300		80	56	2.76	25×50	
		80	56	2.78	30×40	
3900		80	56	2.71	35×30	
		68	48	3.12	30×45	
4700		68	48	3.07	35×35	
		57	40	3.56	30×50	
5600		57	40	3.5	35×40	
		47	33	3.87	35×45	
6800		39	27	4.19	35×50	
100 (125)		560	474	332	1.07	22×25
	820	324	227	1.35	22×30	
		324	227	1.35	25×25	
	1000	265	186	1.54	22×35	
		265	186	1.56	25×30	
	1200	221	155	1.74	22×40	
		221	155	1.76	25×35	
		221	155	1.71	30×25	
	1500	177	124	1.99	22×45	
		177	124	2.03	25×40	
		177	124	2	30×30	
		177	124	2.07	35×25	
	1800	147	103	2.28	25×45	
		147	103	2.27	30×35	
	2200	121	84	2.57	25×50	
		121	84	2.59	30×40	
		121	84	2.52	35×30	
	2700	98	69	2.94	30×45	
		98	69	2.9	35×35	

CD294 Series

Ratings					
V _{DC} (Surge Voltage)	Rated Capacitance	Max. ESR 20°C, 120Hz	Typ. ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size φ DxL
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)
100 (125)	3300	80	56	3.32	30×50
		80	56	3.31	35×40
	3900	68	48	3.69	35×45
	4700	57	40	4.14	35×50
160 (200)	330	603	422	1.16	22×25
		510	357	1.43	22×30
	390	424	296	1.52	22×35
		424	296	1.55	25×25
	470	355	249	1.62	22×40
		355	249	1.73	25×30
	560	293	205	1.7	22×45
		293	205	1.81	25×35
		293	205	1.82	30×25
		243	170	1.81	22×50
	680	243	170	1.98	25×40
		243	170	1.98	30×30
		243	170	1.93	35×25
		199	139	2.04	25×45
	820	199	139	2.14	30×35
		166	116	2.12	25×50
		166	116	2.22	30×40
		166	116	2.4	35×30
	1200	133	93	2.46	30×45
		133	93	2.53	35×35
	1500	111	77	2.98	35×45
		91	63	3.1	35×50
180 (225)	270	737	516	1.08	22×25
		603	422	1.3	22×30
	330	510	357	1.35	25×25
		424	296	1.5	22×35
	470	424	296	1.62	25×30
		355	249	1.62	22×40
	560	355	249	1.69	25×35
		355	249	1.67	30×25
		293	205	1.76	22×50
		293	205	1.72	25×40
	680	293	205	1.74	30×30
		293	205	1.92	35×25
		243	170	1.78	25×45
		243	170	1.85	30×35
	820	199	139	1.91	25×50
		199	139	2.01	30×40
		199	139	2.16	35×30
		166	116	2.19	30×45
	1200	166	116	2.34	35×35
		133	93	2.36	30×50
		133	93	2.56	35×40
		111	77	2.67	35×45
200 (250)	220	905	633	1.08	22×25
		737	516	1.20	22×30
	330	603	422	1.3	22×30
		603	422	1.35	25×25
	390	510	357	1.41	22×35
		424	296	1.5	22×40
	470	424	296	1.47	25×30
		424	296	1.56	30×25
		355	249	1.58	22×45
		355	249	1.65	25×35
	560	293	205	1.68	22×50
		293	205	1.8	25×40
		293	205	1.82	30×30
		293	205	1.96	35×25
	680	243	170	1.87	25×50
		243	170	1.99	30×35
		243	170	2.07	35×30

Ratings						
V _{dc} (Surge Voltage)	Rated Capa- citan- ce	Max. ESR 20°C, 120Hz	Typ. ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size φ D×L	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	
200 (250)	1000	199	139	2.17	30×45	
		199	139	2.22	35×35	
	1200	166	116	2.22	30×50	
		166	116	2.42	35×40	
	1500	133	93	2.59	35×45	
	1800	111	77	2.7	35×50	
250 (300)	180	1106	774	0.94	22×25	
		905	633	1.1	22×30	
	220	905	633	1.15	25×25	
		737	516	1.13	22×35	
	270	737	516	1.13	22×35	
		603	422	1.2	22×40	
		603	422	1.3	25×30	
	330	603	422	1.3	30×25	
		510	357	1.26	22×45	
		510	357	1.41	25×35	
	390	424	296	1.37	22×50	
		424	296	1.52	25×40	
		424	296	1.36	30×30	
	470	424	296	1.4	35×25	
		355	249	1.59	25×45	
		355	249	1.57	30×35	
	560	355	249	1.56	35×30	
		293	205	1.66	25×50	
		293	205	1.76	30×40	
	680	243	170	1.83	30×45	
		243	170	1.82	35×35	
		820	199	139	1.87	30×50
	199		139	1.99	35×40	
	1000		1200	166	116	2.1
		68	2927	1610	0.56	22×25
	350 (400)	100	1990	1095	0.7	22×30
			1990	1095	0.7	25×25
		120	1659	912	0.73	22×35
			1327	730	0.79	22×40
		150	1327	730	0.82	25×30
			1327	730	0.82	30×25
			1106	608	0.81	22×45
		180	1106	608	0.89	25×35
			1106	608	0.9	30×30
905			498	0.93	22×50	
220		905	498	0.97	25×40	
		905	498	0.98	35×25	
		737	406	1.01	25×50	
270		737	406	1.05	30×35	
		737	406	1.01	35×30	
		603	332	1.16	30×45	
330		603	332	1.16	35×35	
		510	281	1.26	30×50	
390		510	281	1.26	35×40	
		470	424	233	1.35	35×45
		560	355	196	1.51	35×50

CD294 Series

Ratings					
V _{DC} (Surge Voltage)	Rated Capacitance	Max. ESR 20°C, 120Hz	Typ. ESR 20°C, 120Hz	Rated Ripple Current 105°C, 120Hz	Size Ø D×L
(V)	(µF)	(mΩ)	(mΩ)	(Arms)	(mm)
400 (450)	68	2927	1522	0.47	22×25
	82	2427	1262	0.56	22×30
	100	2427	1262	0.65	25×25
	100	1990	1035	0.60	22×30
	120	1659	863	0.64	22×35
		1659	863	0.7	25×30
		659	863	0.78	30×25
	150	1327	690	0.7	22×40
		1327	690	0.73	25×35
	180	1106	575	0.78	22×50
		1106	575	0.82	25×40
		1106	575	0.83	30×30
		1106	575	0.86	35×25
	220	905	471	0.87	25×45
		905	471	0.96	30×35
	270	737	383	0.94	25×50
		737	383	0.95	30×40
		737	383	0.91	35×30
	330	603	314	1.11	30×45
		603	314	1.13	35×35
	390	510	265	1.15	30×50
		510	265	1.26	35×40
	470	424	220	1.31	35×45
450 (500)	560	355	185	1.5	35×50
	56	4739	2370	0.47	22×25
	68	3903	1951	0.56	22×30
	82	3903	1951	0.65	25×25
	82	3237	1618	0.64	22×35
	100	2654	1327	0.7	22×40
		2654	1327	0.7	25×30
		2654	1327	0.78	30×25
	120	2212	1106	0.73	22×45
		2212	1106	0.73	25×35
	150	1769	885	0.78	22×50
		1769	885	0.82	25×40
		1769	885	0.83	30×30
		1769	885	0.86	35×25
	180	1474	737	0.87	25×45
		1474	737	0.86	30×35
	220	1206	603	0.94	25×50
		1206	603	0.95	30×40
		1206	603	0.91	35×30
	270	983	492	1.11	30×45
		983	492	1.13	35×35
	330	804	402	1.15	30×50
		804	402	1.26	35×40
	390	681	340	1.31	35×45
	470	565	282	1.5	35×50
500 (550)	39	6805	3403	0.35	22×30
	47	5647	2823	0.41	22×35
	56	4739	2370	0.47	22×40
	68	3903	1951	0.54	22×45
	82	3237	1618	0.62	25×40
	100	2654	1327	0.67	25×45
	120	2212	1106	0.77	25×50
		2212	1106	0.72	35×30
	150	1769	885	0.85	30×40
	180	1474	737	1.01	30×50
	220	1206	603	1.12	35×45
	270	983	492	1.29	35×50

Customer products are available on request.



东莞市创慧电子有限公司 DONGGUAN CHUANGHUI ELECTRONICS CO.,LTD

9. 包装说明Packing instructions:

9.1 先用塑料袋包装，然后再放置于包装箱中，具体包装数量请参照《创慧包装标准》 Pack with plastic bags, and then placed in a carton, please refer to 《Packing Standard》 for specific packing quantity.

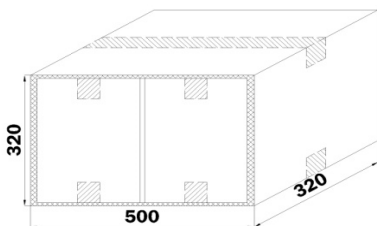
9.2 包装标识：采用中性标签，注明客户名、订单号、料号、产品系列、规格、尺寸、数量、生产日期和生产批号 Label Marking: indicate customer name, purchase number, part number, product series, specifications, size, quantity, production date and lot number, shown as below.

9.3 包装图示 Packing Figure

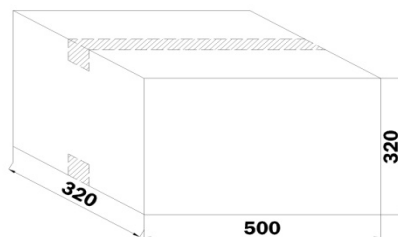
a) 标签Label

CH	
订单号 P.O	创慧 CH221102053
料号 P/N	CETW-181A-000
系列 series	CD288H 墨绿底金字 PET
规格 Spec	400V180uF ±20%
尺寸 Size	D18X25L 长脚
数量 Qty	50PCS

b) 内箱Inner Carton



c) 外箱Outer Carton



10. 料号编码规则 Material number encoding rules :

CD26LF1	2T	M	181	N45	0	I
①系列Series	②电压Voltage	③容差Capacitance Tolerance	④容量Capacitance	⑤尺寸Size	⑥成型Finishing	⑦胶管Sleeve

①系列Series	CD110	CD288H	CD288L	CD26G	CD26M	CD26L	CD110L	NP	LL
	CD288S	CD26K	CD26C	CD293	CD294	CD296	CD133	CD134	CD136

②电压V	4	6.3	10	16	25	35	50	63	80	100	120	140	160	180	200	250	315	350	400	420	450	460	500	550
代号Code	OG	OJ	1A	1C	1E	1V	1H	1J	1K	2A	2B	2S	2C	2Z	2D	2E	2F	2V	2G	2J	2W	2T	2H	2L

③容差代码code	J	K	M	W	T	Q	P
容差C.T.	±5%	±10%	±20%	-0% ~ +20%	-10% ~ +20%	-20% ~ +30%	-15% ~ +20%

④容量Cap.	0.1	0.22	0.3	0.47	1	2	3.3	4.7	6.8	10	22	33	47	68	100	220	330	3300	...
编码Code	R10	R22	R33	R47	10	2R2	3R3	4R7	6R8	100	220	330	470	680	101	221	331	332	...

⑤尺寸														
直径D	4	5	6	8	10	12.5	13	16	18	20	22	25	30	35
编码Code	C	D	E	F	G	H	K	L	M	N	O	P	Q	R
高度H	5	7	11	12	13	16	18	20	27	25	30	35	45	
编码Code	5	7	11	12	13	16	18	20	27	25	30	35	45	

⑥成型Finishing	散装Bulk	编带Taping P=5.0	编带Taping P=2.5	剪脚Cut Lead L=3.5	K脚剪脚L=4.5	S脚剪脚L=4.5	卧式H01=4.0	卧式H02=4.0	贴片SMD
编码Code	0	TP5	TP25	C35	K45	S45	H140	H240	S

⑦胶管Sleeve	PVC	PET
编码Code	C	T