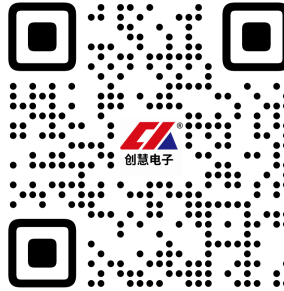


CD294 Series

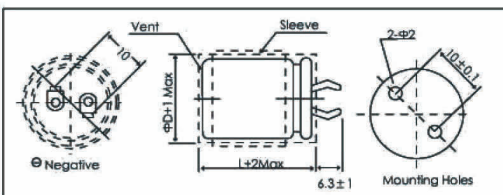
- High Temperature snap-in series
- Endurance: 2000 hours at 105°C
- Sleeve color: Silver Print in Black Sleeve



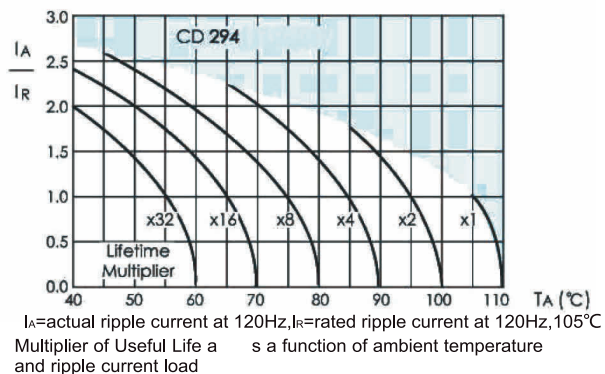
Item	Characteristics			
Operating Temperature Range(°C)	-40~+105	-25~+105		
Voltage Range(V)	16~100	160~500		
Capacitance Range (µF)	39~47000			
Capacitance Tolerance (20°C,120Hz)	±20%			
Leakage Current (µA)	After 5 minutes at 20°C application of rated voltage,leakage current is not more than 0.01 CV 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	U _R	U _R	U _R	U _R	U _R =0
Applied Current	I _R	1.4×I _R	I _R	I _R =0	I _R =0
Applied Temperature	105°C	40°C	105°C	105°C	105°C
Failure Rate Level	≤1% Failure Rate	≤1% Failure Rate	guaranteed		>24h before measurement

Dimensions(mm)



Lifetime Diagram



Frequency Coefficient

Voltage(V)	50Hz	120Hz	1kHz	10kHz	≥20kHz
≤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
		66	46	1.99	22×30
	10000	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
	18000	37	26	2.98	22×45
		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
	27000	25	17	3.81	25×50
		25	17	3.83	30×40
	33000	25	17	3.74	35×30
		20	14	4.3	30×45
	39000	20	14	4.24	35×35
		17	12	4.74	30×50
47000	17	12	4.72	35×40	
	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	
8200	65	45	2.14	22×35	
	65	45	2.16	25×30	
10000	65	45	2.25	30×25	
	53	37	2.4	22×40	
12000	53	37	2.44	25×35	
	44	31	2.69	22×45	
15000	44	31	2.74	25×40	
	44	31	2.7	30×30	
18000	44	31	2.8	35×25	
	35	25	3.15	25×45	
22000	35	25	3.13	30×35	
	35	25	3.22	35×30	
27000	30	21	3.54	25×50	
	30	21	3.54	30×40	
33000	24	17	4.24	30×45	
	24	17	3.96	35×35	
39000	20	14	4.75	35×45	
	16	11	5.39	35×50	
47000	141	99	1.43	22×25	
	119	83	1.65	22×30	
5600	99	69	1.78	25×25	
	83	58	2.02	22×35	
6800	83	58	2.04	25×30	
	83	58	2.12	30×25	
8200	68	48	2.28	22×40	
	68	48	2.31	25×35	
10000	57	40	2.67	22×50	
	57	40	2.6	25×40	
12000	57	40	2.56	30×30	
	57	40	2.78	35×25	
15000	46	33	2.92	25×45	
	46	33	2.92	30×35	
18000	39	27	3.26	25×50	
	39	27	3.28	30×40	
22000	39	27	3.2	35×30	
	31	22	3.74	30×45	
27000	31	22	3.69	35×35	
	26	18	4.16	35×40	
33000	21	15	4.92	35×50	
	221	155	1.31	22×25	
3900	181	127	1.45	22×30	
	147	103	1.7	22×30	
4700	147	103	1.7	25×25	
	121	84	1.98	22×35	
50 (63)	121	84	2	25×30	
	102	72	2.25	22×40	
7000	102	72	2.28	25×35	
	102	72	2.22	30×25	
8500	85	59	2.56	22×45	
	85	59	2.58	30×30	
10000	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	1.25
1800	147	103	1.52	22×30	
	147	103	1.5	25×25	
2200	121	84	1.73	22×35	
	121	84	1.75	25×30	
2700	98	69	1.97	22×40	
	98	69	1.99	25×35	
3300	98	69	1.93	30×25	
	80	56	2.32	22×50	
3900	80	56	2.27	25×40	
	80	56	2.24	30×30	
4700	80	56	2.41	35×25	
	68	48	2.54	25×45	
5600	68	48	2.55	30×35	
	57	40	2.88	25×50	
6800	57	40	2.9	30×40	
	57	40	2.83	35×30	
8200	47	33	3.28	30×45	
	47	33	3.24	35×35	
10000	39	27	3.73	30×50	
	39	27	3.71	35×40	
12000	32	23	4.16	35×45	
	27	19	4.69	35×50	
15000	820	324	1.11	22×25	
	1000	266	1.86	22×25	
18000	221	155	1.39	22×30	
	221	155	1.39	25×25	
22000	177	124	1.61	22×35	
	177	124	1.62	25×30	
27000	147	103	1.83	22×40	
	147	103	1.81	30×25	
33000	121	84	2.09	22×45	
	121	84	2.01	25×35	
39000	121	84	2.1	30×30	
	121	84	2.17	35×25	
47000	98	69	2.43	25×45	
	98	69	2.43	30×35	
56000	80	56	2.76	25×50	
	80	56	2.78	30×40	
68000	80	56	2.71	35×30	
	68	48	3.12	30×45	
82000	68	48	3.07	35×35	
	57	40	3.56	30×50	
100000	57	40	3.5	35×40	
	47	33	3.87	35×45	
120000	39	27	4.19	35×50	
	560	474	332	1.07	22×25
150000	324	227	1.35	22×30	
	324	227	1.35	25×25	
180000	265	186	1.54	22×35	
	265	186	1.56	25×30	
220000	221	155	1.74	22×40	
	221	155	1.76	25×35	
270000	221	155	1.71	30×25	
	177	124	1.99	22×45	
330000	177	124	2.03	25×40	
	177	124	2	30×30	
390000	177	124	2.07	35×25	
	147	103	2.28	25×45	
470000	147	103	2.27	30×35	
	121	84	2.57	25×50	
560000	121	84	2.59	30×40	
	121	84	2.52	35×30	
680000	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	
160 (200)	4700	57	40	4.14	35×50	
	330	603	422	1.16	22×25	
		390	510	357	1.43	22×30
	470	424	296	1.52	22×35	
		424	296	1.55	25×25	
	560	355	249	1.62	22×40	
		355	249	1.73	25×30	
	680	293	205	1.7	22×45	
		293	205	1.81	25×35	
		293	205	1.82	30×25	
	820	243	170	1.81	22×50	
		243	170	1.98	25×40	
		243	170	1.98	30×30	
	1000	243	170	1.93	35×25	
		199	139	2.04	25×45	
		199	139	2.14	30×35	
	1200	166	116	2.12	25×50	
		166	116	2.22	30×40	
		166	116	2.4	35×30	
	1500	133	93	2.46	30×45	
		133	93	2.53	35×35	
	1800	111	77	2.98	35×45	
	2200	91	63	3.1	35×50	
	180 (225)	270	737	516	1.08	22×25
330		603	422	1.3	22×30	
390		510	357	1.35	25×25	
470		424	296	1.5	22×35	
		424	296	1.62	25×30	
560		355	249	1.62	22×40	
		355	249	1.69	25×35	
		355	249	1.67	30×25	
680		293	205	1.76	22×50	
		293	205	1.72	25×40	
		293	205	1.74	30×30	
820		293	205	1.92	35×25	
		243	170	1.78	25×45	
		243	170	1.85	30×35	
1000		199	139	1.91	25×50	
		199	139	2.01	30×40	
		199	139	2.16	35×30	
1200		166	116	2.19	30×45	
		166	116	2.34	35×35	
1500		133	93	2.36	30×50	
		133	93	2.56	35×40	
1800		111	77	2.67	35×45	
200 (250)		220	905	633	1.08	22×25
		270	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	
	560	355	249	1.65	25×35	
		293	205	1.68	22×50	
	680	293	205	1.8	25×40	
		293	205	1.82	30×30	
		293	205	1.96	35×25	
	820	243	170	1.87	25×50	
		243	170	1.99	30×35	
		243	170	2.07	35×30	

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)
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
250 (300)	1800	111	77	2.7	35×50
	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
	330	603	422	1.2	22×40
		603	422	1.3	25×30
		603	422	1.3	30×25
	390	510	357	1.26	22×45
		510	357	1.41	25×35
	470	424	296	1.37	22×50
		424	296	1.52	25×40
		424	296	1.36	30×30
		424	296	1.4	35×25
	560	355	249	1.59	25×45
		355	249	1.57	30×35
		355	249	1.56	35×30
	680	293	205	1.66	25×50
		293	205	1.76	30×40
	820	243	170	1.83	30×45
		243	170	1.82	35×35
	1000	199	139	1.87	30×50
		199	139	1.99	35×40
	350 (400)	1200	166	116	2.1
68		2927	1610	0.56	22×25
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	
	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 φ DxL	
(V)	(μF)	(mΩ)	(mΩ)	(Arms)	(mm)	
400 (450)	68	2927	1522	0.47	22×25	
		2427	1262	0.56	22×30	
	82	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		
560	355	185	1.5	35×50		
450 (500)	56	4739	2370	0.47	22×25	
	68	3903	1951	0.56	22×30	
		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
			2212	1106	0.77	25×50
	120	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.

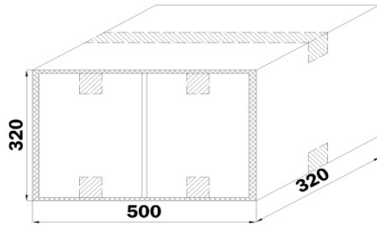
9.2 包装标识：采用中性标签，注明客户名、订单号、料号、产品系列、规格、尺寸、数量、生产日期和生产批号 Label Marking: indicate customer name, purchase number, part number, product series, specifications, size, quantity, production date and lot number, shown as below.

9.3 包装图示 Packing Figure

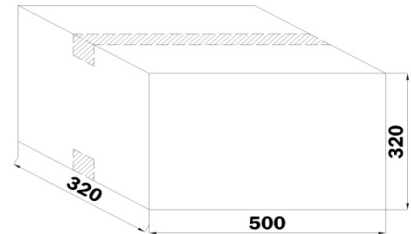
a) 标签 Label

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