



CD288L Series

- Long life, dedicated for LED drivers
- Endurance: 3000-5000 hours at 105°C
- Sleeve color: White Print in Navy Sleeve



Series Features:

Item	Characteristics													
Operating Temperature Range(°C)	- 40 ~ + 105						- 25 ~ + 105							
Voltage Range(V)	6.3 ~ 100						160~500							
Capacitance Range(μ F)	1-6800													
Capacitance Tolerance (20°C,120HZ)	±20%													
Leakage Current(μ A) (20°C)	6.3~100V						160~500V							
	1≤0.01CV or 3 μ A, Whichever is greater(after 2 minutes)						1 ≤0.02CV+15 μ A, (after 5 minutes)							
	C:Nominal Capacitance(μF) V:Rated Voltage(V)													
Dissipation Factor (20°C,120HZ)	R.v.(v)	6.3	10	16	25	35	50	63	100	160 ~ 250	350 ~ 450	500		
	Tanδ	0.22	0.19	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.2	0.24		
	When nominal capacitance exceeds 1,000 μ F,add 0.02 to the value above for each 1,000 μ F increase													
Stability at low Temperature (Impedance Ratio at 120Hz)	R.V.(V)		6.3		10		16		25 ~ 100		160 ~ 250		350 ~ 500	
	Z-25°C/Z+20°C		5		4		3		3		3		6	
	Z-40°C/Z+20°C		10		8		5		4		-		-	
Load Life (+ 105°C 3000-5000h)	The following specification shall be satisfied when the capacitors are restored to 20°C after subjected to DC Voltage with the rated ripple current is applied for 3000-5000h at 105°C.													
	Capacitance Change			Within ±25% of the initial measured Value. (160-500WV: ±20%)						Life time				
	Dissipation Factor			≤200% of the initial specified Value						6.3-63WV		100-500WV		
	Leakage current			≤The initial specified value						3000h		5000h		
Shelf Life (+ 105°C 1000h)	The following specification shall be satisfied when the capacitors are restored to 20°C after exposing them for1000h at 105°C without Voltage applied.													
	Capacitance Change						Within ±25% of the initial measured Value (160-500WV:±20%).							
	Dissipation Factor						≤200% of the initial specified Value							
	Leakage current						≤200% of the initial specified Value							

Frequency Coefficient

Cap.(μF) \ Freq.(HZ)	120	1K	10K	100K
CAP < 220	0.40	0.75	0.90	1.00
220≤CAP < 680	0.50	0.85	0.94	1.00
680≤CAP < 2200	0.60	0.87	0.95	1.00
2200≤CAP < 4700	0.75	0.90	0.95	1.00
CAP≥4700	0.85	0.95	0.98	1.00

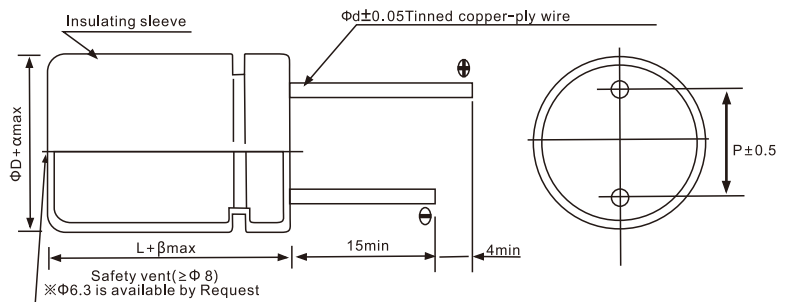
Temperature Coefficieng

Temperature (°C)	40	60	70	85	105
Factor	2.4	2.1	1.78	1.65	1

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Dimensions (mm)

ΦD	5	6.3	8	10	13	16	18	20	22
P	2.0	2.5	3.5	5.0	5.0	7.5	7.5	10	10
Φd	0.5	0.5	0.5	0.6	0.6	0.8	0.8	0.8	0.8
β	1.0			2.0					
α	0.5								



Ratings

R.V.(V)	6.3		10		16		25		35		50		63		80	
Freq.(HZ) Cap.(μF)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)
1											5×11	19				
2.2											5×11	38				
3.3											5×11	46				
4.7											5×11	56				
6.8											5×11	67				
10											5×11	82				
15											5×11	99	5×11	134		
22											5×11	233				
33									5×11	245			6.3×11	214		
47							5×11	240								
56									6.3×11	364	6.3×11	348	8×12	400		
68															10×13	386
82													8×16	532		
100			5×11	244			6.3×11	364	8×12	510	8×12	622			10×16	484
120					6.3×11	364					8×16	800	8×20	656	10×20	640
150	5×11	244			6.3×11	509			8×12	653	10×13	825	8×16	784	10×25	724
180											8×20	992	10×20	920		
220	6.3×11	305	6.3×11	368	6.3×12	580	8×12	653	8×16	841	10×16	1142	10×25	1085	13×21	884
270									8×20	1040	10×20	1304	13×21	1200		
330	6.3×11	366			8×12	652	8×16	838	10×16	1188	10×25	1541	10×20	1400	13×25	1005
390							8×20	989					13×25	1520	13×30	1200
470	8×11	510	8×11	652	8×16	840	10×16	1188	10×20	1501	13×21	1684	13×30	1845	13×35	1324
560							10×16	1344	10×25	1765	13×25	1973	13×35	2005	13×40	1444
680			8×16	841	8×20	1045	10×20	1501	13×21	1932	13×30	2333	13×40	2244	16×30	1484
820	8×16	840	8×12	976	10×16	1205	10×25	1765	10×20	2096	13×35	2412	18×25	2244	16×35	1605
1000	8×16	805	8×20	1045	10×20	1501	13×21	2045	13×25	2261	16×25	2453	16×35	2324	16×40	1764
1200	8×20	1044	10×20	1501	10×25	1766			13×30	2677			16×40	2724	18×40	2164
1500	10×20	1501	10×20	1781	13×20	1934	13×25	2261	13×35	2766			18×35	2724		
1800							13×30	2677					18×40	2804		
2200	10×20	1764	13×20	1932	13×25	2261	13×35	2765								
2700	10×25	1800			13×30	2672	16×25	2808								
3300	13×20	1932	13×25	2261	13×35	2765										
3900	13×25	2256	13×30	2672	16×25	2808										
4700	13×30	2677	13×35	2765												
5600	13×35	2720	16×25	2808												
6800	16×25	2813														

↑ Ripple Current (mAmps) at 105°C, 100KHZ

CD288L Series

Ratings

R.V.(V)	100		160		200		250		350		400		450		500	
Parameter Cap.(μF)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	ΦDxL (mm)	Ripple Current (mAmps)	Φ DxL (mm)	Ripple Current (mAmps)
1			6.3×9	32	6.3×12	38	6.3×12	42	6.3×12	58	6.3×12	66	8×12	61		
1.5			6.3×12	40	6.3×12	43	6.3×12	46	6.3×12	63	6.3×12	69	8×12	65		
1.8			6.3×12	45	6.3×12	48	6.3×12	50	6.3×12	68	6.3×12	74	8×12	72		
2.2			6.3×12	52	6.3×12	58	6.3×12	64	6.3×12	77	6.3×12	75	8×12	86		
2.8			6.3×12	54	6.3×12	59	6.3×12	67	8×12	85	8×12	92	8×12	92		
3.3			6.3×12	61	6.3×12	69	6.3×12	71	8×12	94	8×12	93	8×16	108		
4.7			6.3×12	65	6.3×12	76	6.3×12	78	8×12	97	8×12	94	8×20	116		
5.6			6.3×12	68			8×9	81	8×12	104	8×16	116	10×16	126		
6.8	5×11	104	8×12	82	8×12	92	8×12	90	8×16	133	10×12	133	10×16	149		
8.2			8×12	93	8×12	96	8×12	96	8×20	154	10×20	189	10×20	189		
10			8×12	170	8×12	153	8×12	140	8×20	190	10×20	229	10×20	206	13X21	218
12											10×20	236				
15	6.3×11	168	8×12	189	8×16	205	8×20	252	10×20	252	10×20	246	13×20	285	13X25	285
22			8×16	276	10×16	324	10×16	325	13×20	349	13×20	317	13×25	365	13X35	362
27	8×12	284														
33			10×16	341	10×20	365	10×20	388	13×20	418	16×25	446	16×25	446	18X25	454
39	8×16	360														
47	10×13	389	10×16	373	13×20	492	13×20	504	16×20	526	16×25	517	16×35	565	18X30	570
56	8×20	456									16×30	548			18X30	616
68	10×16	484	13×21	509	13×20	512	16×20	581	18×20	588	18×30	645	18×30	653	18X35	720
82	10×20	643	10×25						18×25	733					22X35	920
100	13×16	604	13×25	580	16×20	593	16×25	645	16X30	768	18×35	749	18×40	765	22X35	1120
120	10×25	724	13×21													
150	13×20	884	16×25	685	16×30	724	16×30	750			18X40	1024	18X45	880		
180																
220	13×25	1004	16X25	784												
270	13×30	1200														
330	13×25	1324	18X30	916												
390	13×40	1440														
470	16×30	1485														
560	16×35	1600														
680	16×40	1764														
820	18×40	2160														

↑
Ripple Current (mAmps) at 105°C, 100KHZ



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.

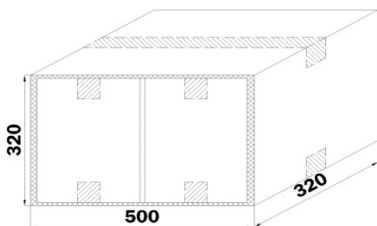
9.2 包装标识：采用中性标签，注明客户名、订单号、料号、产品系列、规格、尺寸、数量、生产日期和生产批号 Label Marking: indicate customer name, purchase number, part number, product series, specifications, size, quantity, production date and lot number, shown as below.

9.3 包装图示 Packing Figure

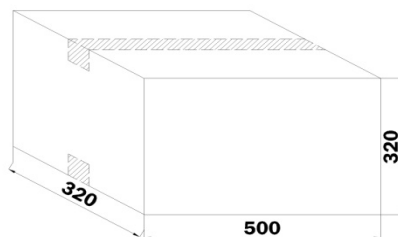
a) 标签Label

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