

# CD289Q SERIES CD289Q系列

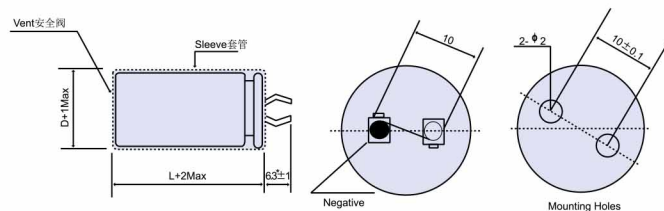
High-speed charging and discharging 3000hours at 105 °C  
 105°C 3000h 高速充放电对应品  
 Size may be selected 尺寸可选择



## SPECIFICATIONS 技术规范

Item项目	Characteristics特性										
Operating Temperature Range(°C)环境温度范围	-40~+105 (>250 -25~+105)										
Rated Voltage Range(V)额定电压范围	160~500										
Capacitance Tolerance (20°C, 120Hz) 静电容量允许偏差	±20%										
Leakage Current (µA)漏电流	0.01CV or 1.5mA whichever is smaller.(at 20°C,after 5 minutes) C: Nominal Capacitance(µF),V: Rated Voltage(V) 0.01CV or 1.5mA取较小值 (at 20°C, 5分钟后) C:标称容量 (µF) , V: 额定电压										
Dissipation Factor (20°C, 120Hz)损耗角正切值	<table border="1"> <thead> <tr> <th>Rated voltage额定电压</th> <th>350</th> <th>400</th> <th>420</th> <th>450~500</th> </tr> </thead> <tbody> <tr> <td>tanδ损耗角正切值</td> <td>0.15</td> <td>0.15</td> <td>0.15</td> <td>0.20</td> </tr> </tbody> </table>	Rated voltage额定电压	350	400	420	450~500	tanδ损耗角正切值	0.15	0.15	0.15	0.20
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Temperature characteristics(120HZ) 温度特性	Z-25°C/Z+20°C≤8										
Charging and discharging durability 充放电耐久性	Charging and discharging voltage difference (ΔV) = rated voltage * 0.35, in frequency for 6 Hz, charging and discharging 50 million times, meet the following project 充放电电压差 (ΔV) = 额定电压*0.35,在频率为6Hz,充放电5000万次以后,满足以下项目										
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Load Life(+105°C)耐久性	<table border="1"> <tbody> <tr> <td>Time 时间</td> <td>3000hours</td> </tr> <tr> <td>Leakage current 漏电流</td> <td>Not more than specified value小于规定值</td> </tr> <tr> <td>Capacitance change 容量变化率</td> <td>Within ±20% of the initial value小于±20%的初始值</td> </tr> <tr> <td>Dissipation factor 损耗角正切值</td> <td>Not more than 200% of specified value小于2倍规定值</td> </tr> </tbody> </table>	Time 时间	3000hours	Leakage current 漏电流	Not more than specified value小于规定值	Capacitance change 容量变化率	Within ±20% of the initial value小于±20%的初始值	Dissipation factor 损耗角正切值	Not more than 200% of specified value小于2倍规定值		
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Shelf Life(+105°C)高温储存	1000hours no voltage applied ,the capacitor shall meet the specified limits for "Load Life" 高温贮存1000h, 电容器应满足耐久性实验项目的变化 *After test:: UR to be applied for 30 minutes,24 to 48 hours before measurement 试验后: 试验后:施加额定工作电压30分钟,放置24~48小时后测试										

## DIMENSIONS (mm) 尺寸



\*: 短端子长度为4.0±0.5mm

## RATED RIPPLE CURRENT MULTIPLIERS 额定纹波电流修正系数

### Frequency coefficient 频率校正系数

Frequency (Hz) 频率	50	60	120	300	1k	10k	≥50k
Factor 系数	0.77	0.82	1.00	1.16	1.30	1.41	1.43

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## STANDARD RATINGS 规格表

WV(V) 工作电压	cap标称容量 (uF)	Case size尺寸 ΦD*L(mm)	ESR 20°C等效串联电阻	
			120Hz(mΩ)	Ripple纹波电流 Arms
350	120	22*25	1659	0.75
	150	22*30	1327	0.82
	180	22*30	1106	0.90
	180	25*25	1106	0.90
	220	22*35	905	1.00
	220	25*30	905	1.00
	270	22*40	737	1.10
	270	25*35	737	1.10
	270	30*25	737	1.10
	330	22*45	603	1.20
	330	25*40	603	1.20
	330	30*30	603	1.20
	390	25*45	510	1.30
	390	30*35	510	1.30
	470	25*50	423	1.40
	470	30*40	423	1.40
	470	35*30	423	1.40
	560	30*45	355	1.50
	560	35*35	355	1.50
	400	680	30*50	293
680		35*40	293	1.70
820		35*45	243	1.9
100		22*30	1990	0.68
120		22*35	1659	0.73
150		22*40	1327	0.85
180		22*40	1106	0.95
180		25*35	1106	0.95
180		30*30	1106	0.95
220		22*45	905	1.10
220		25*40	905	1.10
220		30*35	905	1.10
270		22*50	737	1.22
270		25*45	737	1.22
270		30*35	737	1.22
270		35*30	737	1.22
330		25*50	603	1.44
330		30*40	603	1.44
390		30*40	510	1.55
390		35*35	510	1.55
470	30*45	423	1.68	
470	35*40	423	1.68	
560	30*60	355	1.90	
560	35*45	355	1.90	
680	35*50	293	2.12	
420	100	22*30	1990	0.66
	120	22*35	1659	0.81
	120	25*30	1659	0.81
	150	22*40	1327	0.84
	150	25*30	1327	0.84
	180	22*40	1106	0.91
	180	25*30	1106	0.91
	180	30*25	1106	0.91
	220	22*45	905	1.05
	220	25*35	905	1.05
	220	30*35	905	1.05
	270	25*40	737	1.25
	270	30*35	737	1.25
	270	35*35	737	1.25
	330	25*50	603	1.42
	330	30*40	603	1.42
	330	35*30	603	1.42
	390	30*40	510	1.61
	390	35*35	510	1.61
	470	30*45	423	1.86
470	35*40	423	1.86	
560	35*45	355	2.10	
680	35*50	293	2.20	

WV(V) 工作电压	cap标称容量 (uF)	Case size尺寸 ΦD*L(mm)	ESR 20°C等效串联电阻	
			120Hz(mΩ)	Ripple纹波电流 Arms
450	82	22*30	3236	0.64
	100	22*35	2654	0.69
	100	25*30	2654	0.69
	120	22*35	2212	0.72
	120	25*30	2212	0.72
	150	22*40	1769	0.79
	150	25*35	1769	0.79
	150	30*30	1769	0.79
	180	22*50	1474	0.87
	180	25*40	1474	0.87
	180	30*35	1474	0.87
	220	25*45	1206	1.05
	220	30*40	1206	1.05
	220	35*30	1206	1.05
	270	25*50	983	1.23
	270	30*45	983	1.23
	270	35*40	983	1.23
	330	30*50	804	1.38
	330	35*45	804	1.38
	500	390	30*50	680
390		35*45	680	1.61
470		35*45	565	1.78
560		35*50	474	1.99
68		22*30	3903	0.60
82		22*35	3236	0.68
100		25*35	2654	0.72
150		25*40	1769	0.81
180		25*40	1474	0.90
220		30*40	1206	1.08
270		30*45	983	1.29
330		30*50	804	1.40
390	35*45	680	1.65	
470	35*50	565	1.80	
560	35*60	474	2.00	

Ripple Current纹波电流:105°C, 120Hz