



ZP 系列 Series

特点 Features

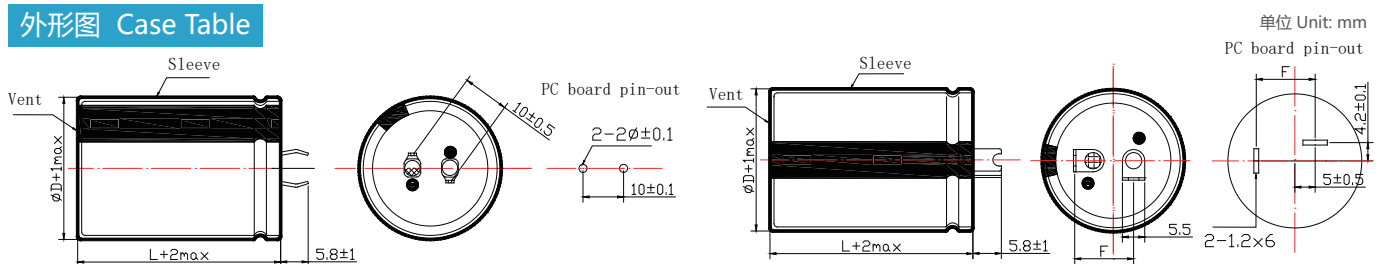
- 耐高纹波,小尺寸,抗振动, 105°C 2000小时, 用于电动工具驱动器中。
High ripple current, Smaller size, Vibration resistance, Load life of 2000 hours at 105°C, Used for power tools in the drive.
- RoHS指令已对应完毕。Adapted to the RoHS directive.



主要技术性能 Specifications

项目 Items	特性 Performance Characteristics	
使用温度范围 Operating Temperature Range	-25~+105°C	
额定电压范围 Rated Voltage Range	200~450V	
标称容量范围 Rated Voltage Range	100~2700uF	
标称容量允许偏差 Capacitance Tolerance	±20% (120Hz, +20°C)	
漏电流 Leakage Current	I≤0.01CV (µA) 或1.5mA (5分钟) 取较小值 (at 20°C, after 5 minutes, Whichever is smaller)	
损耗角正切值(tgδ) Dissipation Factor (+20°C, 120Hz)	Rated voltage(V)	200V~250V
	tgδ	0.15
温度特性 Temperature Characteristics (Impedance ratio at 120Hz)	U _R (V)	200V~250V
	Z-25°C/Z+20°C	4
耐久性 Load Life	+105°C, 施加含额定纹波电流的额定电压2000小时, 恢复16小时后: After applying rated voltage with specified ripple current for 2000 hours at +105°C and then resumed for 16 hours: 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value	
	+105°C, 1000小时贮存后, 加额定工作电压处理30分钟, 恢复16小时后: After storage for 1000 hours at +105°C, U _R to be applied for 30 minutes and then resumed for 16 hours: 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value	
高温贮存 Shelf Life	+105°C, 1000小时贮存后, 加额定工作电压处理30分钟, 恢复16小时后: After storage for 1000 hours at +105°C, U _R to be applied for 30 minutes and then resumed for 16 hours: 电容量变化率 Capacitance change : ±20%初始测量值以内 ±20% of the initial measured value 漏电流 Leakage current : ≤初始规定值 ≤Initial specified value 损耗角正切值 Dissipation factor : ≤2倍初始规定值 ≤2 times of the initial specified value	

外形图 Case Table



频率修正系数 Frequency Coefficient

频率(Hz)	50	120	300	1K	10K	100K
U _R (V)						
200~450	0.80	1.00	1.20	1.30	1.41	1.43

尺寸 Dimensions

WV Size CAP(μF)		200V(2D)								250V(2E)							
		Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
680	681	22×50	1.98	25×40	1.98	30×30	1.98			22×60	2.10	25×50	2.10	30×40	2.10	35×35	2.10
820	821	22×60	2.36	25×45	2.36	30×35	2.36	35×30	2.36			25×55	2.45	30×45	2.45	35×40	2.45
1000	102			25×50	2.55	30×40	2.55	35×35	2.55			25×60	2.65	30×50	2.65	35×45	2.65
1200	122			25×60	3.02	30×45	3.02	35×40	3.02					30×60	3.17	35×50	3.17
1500	152					30×50	3.35	35×45	3.35					30×70	3.52	35×55	3.51
1800	182					30×60	3.98	35×50	3.98							35×60	4.20
2200	222					30×70	4.75	35×60	4.75							35×70	5.02
2700	272							35×70	5.60								

WV Size CAP(μF)		400V(2G)								450V(2W)							
		Φ22		Φ25		Φ30		Φ35		Φ22		Φ25		Φ30		Φ35	
		Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple	Size	Ripple
100	101	22×30	0.68							22×35	0.68						
120	121	22×30	0.73	25×25	0.73					22×40	0.76	25×30	0.76				
150	151	22×35	0.87	25×30	0.87					22×45	0.89	25×35	0.89	30×30	0.89		
180	181	22×40	1.00	25×35	1.00	30×30	1.00			22×50	1.05	25×40	1.05	30×35	1.05		
220	221	22×45	1.15	25×40	1.15	30×35	1.15	35×30	1.15			25×45	1.18	30×40	1.18	35×30	1.18
270	271	22×50	1.30	25×45	1.30	30×40	1.30	35×35	1.30			25×50	1.38	30×45	1.38	35×35	1.38
330	331	22×50	1.40	25×45	1.55	30×40	1.55	35×35	1.55			25×60	1.58	30×50	1.58	35×40	1.58
390	391			25×50	1.75	30×45	1.75	35×40	1.75					30×55	1.82	35×45	1.82
470	471					30×45	2.05	35×45	2.05					30×60	2.08	35×50	2.08
560	561					30×50	2.33	35×50	2.33					30×70	2.40	35×55	2.40
680	681					30×60	2.64	35×50	2.64					30×60	2.70	35×60	2.70
820	821					30×60	2.90	35×60	3.12							35×70	3.20

Size φD×L(mm)

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz