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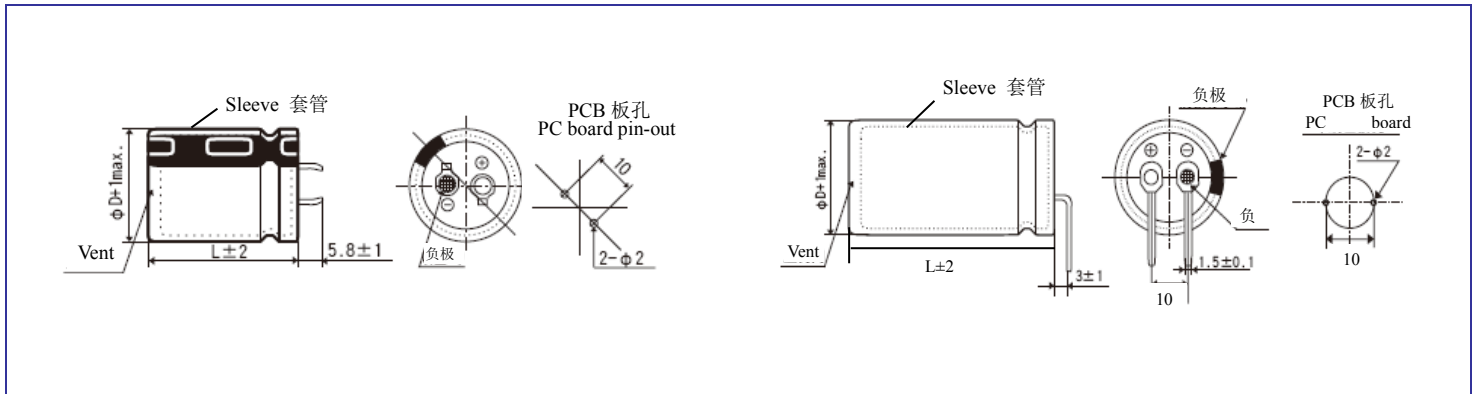
- 耐高纹波,小尺寸,105℃ 3000 小时 .
High ripple current ,Smaller size ,Load life of 3000 hours at 105℃
- 适用于开关电源,变频器 Best for switching power supplies, Inverter.
- ROHS 指令已对应完毕。Adapted to the ROHS directive.

主要技术性能 Specifications

| 项目 Item | 特性 Performance Characteristics | | | | | | | |
|-------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|------|---------|--------------|---------|---------|---------|
| 使用温度范围 Operating temperature range | -40℃ ~ +105℃ | | | | -25℃ ~ +105℃ | | | |
| 额定电压范围 Rated voltage range | 16 ~ 100 V | | | | 160 ~ 450 V | | | |
| 标称容量允许偏差 Capacitance tolerance | ±20% (120Hz, ×20℃) | | | | | | | |
| 漏电流 Leakage current | $I \leq 3\sqrt{CV}$ (μA)或1.5mA 取较小值 (Whichever is smaller) 5分钟 (at 20℃, after 5 minutes) | | | | | | | |
| 损耗角正切值 (tg δ) Dissipation factor (×20℃, 120Hz) | U _R (V) | 16 | 25 | 35 | 50 | 63~100 | 160~250 | 350~450 |
| | tg δ | 0.50 | 0.40 | 0.35 | 0.30 | 0.20 | 0.15 | 0.20 |
| 温度特性 Temperature characteristics (Impedance ratio at 120Hz) | U _R (V) | 10~100 | | 160~250 | | 350~450 | | |
| | Z-25℃/×20℃ | 4 | | 4 | | 8 | | |
| | Z-40℃/×20℃ | 15 | | | | | | |
| 耐久性 Load life | +105℃施加带额定纹波电流的额定电压 3000 小时, 恢复 16 小时后: After applying rated voltage with specified ripple current for 3000 hours at +105℃ and then resumed 16 hours: 容量变化率 Capacitance change : ±20%初始测量值以内 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 2times Initial specified value | | | | | | | |
| 高温贮存 Shelf life | +105℃,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℃, U _R to be applied for 30 minutes and then resumed 16 hours 容量变化率 Capacitance change : ±20%初始测量值以内 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 Initial specified value | | | | | | | |

外形图 Case table

单位Unit: mm



频率修正系数 Frequency coefficient

| Freq.(Hz) | 50 | 120 | 1K | 10K | ≥50K |
|-----------|------|------|------|------|------|
| U(V) | | | | | |
| 10~100 | 0.90 | 1.00 | 1.15 | 1.25 | 1.35 |
| 160~500 | 0.80 | 1.00 | 1.30 | 1.41 | 1.43 |

| | | | | | | | | | |
|------|-----|--|--|--|--|-------|------|-------|------|
| 3300 | 332 | | | | | 30×50 | 3.32 | 35×40 | 3.31 |
| 3900 | 392 | | | | | | | 35×45 | 3.69 |
| 4700 | 472 | | | | | | | 35×50 | 4.14 |

| WV Size CAP(μF) | | 160V(2C) | | | | | | | | 200V(2D) | | | | | | | |
|-----------------------|-----|----------|--------|-------|--------|-------|--------|-------|--------|----------|--------|-------|--------|-------|--------|-------|--------|
| | | Φ22 | | Φ25 | | Φ30 | | Φ35 | | Φ22 | | Φ25 | | Φ30 | | Φ35 | |
| | | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 220 | 221 | | | | | | | | | 22×25 | 1.00 | | | | | | |
| 270 | 271 | | | | | | | | | 22×30 | 1.13 | | | | | | |
| 330 | 331 | 22×25 | 1.20 | | | | | | | 22×30 | 1.25 | 25×25 | 1.25 | | | | |
| 390 | 391 | 22×30 | 1.30 | | | | | | | 22×35 | 1.31 | 25×30 | 1.35 | | | | |
| 470 | 471 | 22×30 | 1.55 | 25×25 | 1.55 | | | | | 22×40 | 1.50 | 25×30 | 1.50 | 30×25 | 1.50 | | |
| 560 | 561 | 22×35 | 1.67 | 25×30 | 1.67 | | | | | 22×45 | 1.67 | 25×35 | 1.67 | 30×30 | 1.67 | | |
| 680 | 681 | 22×40 | 1.82 | 25×35 | 1.85 | 30×25 | 1.82 | | | 22×50 | 1.78 | 25×40 | 1.82 | 30×30 | 1.78 | | |
| 820 | 821 | 22×45 | 2.04 | 25×40 | 2.04 | 30×30 | 2.04 | 35×25 | 2.04 | | | 25×45 | 2.10 | 30×35 | 2.04 | 35×30 | 2.04 |
| 1000 | 102 | | | 25×45 | 2.40 | 30×35 | 2.39 | 35×30 | 2.45 | | | 25×50 | 2.42 | 30×40 | 2.30 | 35×35 | 2.30 |
| 1200 | 122 | | | 25×50 | 2.62 | 30×40 | 2.49 | 35×30 | 2.49 | | | | | 30×45 | 2.65 | 35×40 | 2.84 |
| 1500 | 152 | | | | | 30×45 | 2.84 | 35×35 | 2.84 | | | | | | | 35×45 | 3.08 |
| 1800 | 182 | | | | | 30×45 | 3.32 | 35×40 | 3.00 | | | | | | | 35×50 | 3.48 |
| 2200 | 222 | | | | | | | 35×45 | 3.50 | | | | | | | | |

| WV Size CAP(μF) | | 250V(2E) | | | | | | | | 350V(2V) | | | | | | | |
|-----------------------|-----|----------|--------|-------|--------|-------|--------|-------|--------|----------|--------|-------|--------|-------|--------|-------|--------|
| | | Φ22 | | Φ25 | | Φ30 | | Φ35 | | Φ22 | | Φ25 | | Φ30 | | Φ35 | |
| | | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 68 | 680 | | | | | | | | | 22×25 | 0.47 | | | | | | |
| 100 | 101 | | | | | | | | | 22×25 | 0.69 | | | | | | |
| 120 | 121 | | | | | | | | | 22×30 | 0.75 | | | | | | |
| 150 | 151 | | | | | | | | | 22×35 | 0.80 | 25×30 | 0.80 | 30×25 | 0.83 | | |
| 180 | 181 | 22×25 | 0.88 | | | | | | | 22×40 | 0.92 | 25×30 | 0.92 | 30×25 | 0.90 | | |
| 220 | 221 | 22×30 | 1.00 | 25×25 | 1.08 | | | | | 22×45 | 1.05 | 25×35 | 1.04 | 30×30 | 1.02 | 35×25 | 1.05 |
| 270 | 271 | 22×35 | 1.18 | 25×30 | 1.18 | | | | | | | 25×40 | 1.18 | 30×30 | 1.17 | 35×25 | 1.17 |
| 330 | 331 | 22×40 | 1.30 | 25×30 | 1.30 | 30×25 | 1.30 | | | | | | | 30×35 | 1.34 | 35×30 | 1.22 |
| 390 | 391 | 22×45 | 1.45 | 25×35 | 1.45 | 30×30 | 1.45 | | | | | | | 30×40 | 1.50 | 35×35 | 1.47 |
| 470 | 471 | 22×50 | 1.60 | 25×40 | 1.65 | 30×30 | 1.65 | 35×25 | 1.65 | | | | | | | 35×35 | 1.69 |
| 560 | 561 | | | 25×45 | 1.80 | 30×35 | 1.80 | 35×30 | 1.80 | | | | | | | 35×40 | 1.90 |
| 680 | 681 | | | 25×50 | 2.00 | 30×40 | 2.00 | 35×30 | 2.00 | | | | | | | 35×45 | 2.20 |
| 820 | 821 | | | | | 30×45 | 2.30 | 35×35 | 2.30 | | | | | | | | |
| 1000 | 102 | | | | | 30×50 | 2.60 | 35×40 | 2.60 | | | | | | | | |
| 1200 | 122 | | | | | | | 35×45 | 3.00 | | | | | | | | |

| WV Size CAP(μF) | | 400V(2G) | | | | | | | | 420V(2M) | | | | | | | |
|-----------------------|-----|----------|--------|-------|--------|------|--------|------|--------|----------|--------|-------|--------|------|--------|------|--------|
| | | Φ22 | | Φ25 | | Φ30 | | Φ35 | | Φ22 | | Φ25 | | Φ30 | | Φ35 | |
| | | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 68 | 680 | 22×25 | 0.50 | | | | | | | | | | | | | | |
| 82 | 820 | 22×25 | 0.64 | | | | | | | 22×25 | 0.64 | | | | | | |
| 100 | 101 | 22×30 | 0.70 | | | | | | | 22×30 | 0.70 | 25×25 | 0.70 | | | | |
| 120 | 121 | 22×35 | 0.75 | 25×25 | 0.75 | | | | | 22×35 | 0.75 | 25×30 | 0.75 | | | | |

| | | | | | | | | | | | | | | | | | |
|------|-----|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| 150 | 151 | 22×40 | 0.88 | 25×30 | 0.83 | 30×25 | 0.88 | | | 22×40 | 0.88 | 25×35 | 0.88 | 30×25 | 0.88 | | |
| 180 | 181 | 22×45 | 0.98 | 25×35 | 0.98 | 30×30 | 0.98 | | | 22×45 | 0.95 | 25×35 | 0.95 | 30×30 | 0.95 | | |
| 220 | 221 | 22×50 | 1.10 | 25×40 | 1.10 | 30×30 | 1.10 | | | 22×50 | 1.08 | 25×45 | 1.11 | 30×35 | 1.10 | 35×25 | 1.10 |
| 270 | 271 | | | 25×50 | 1.22 | 30×35 | 1.22 | 35×30 | 1.22 | | | 25×50 | 1.29 | 30×40 | 1.29 | 35×30 | 1.26 |
| 330 | 331 | | | | | 30×45 | 1.44 | 35×30 | 1.44 | | | | | 30×45 | 1.49 | 35×35 | 1.52 |
| 390 | 391 | | | | | 30×45 | 1.60 | 35×35 | 1.60 | | | | | 30×50 | 1.67 | 35×40 | 1.66 |
| 470 | 471 | | | | | | | 35×40 | 1.90 | | | | | | | 35×45 | 1.90 |
| 560 | 561 | | | | | | | 35×45 | 2.12 | | | | | | | 35×50 | 2.13 |
| 680 | 681 | | | | | | | 35×50 | 2.55 | | | | | | | 35×60 | 2.54 |
| 820 | 821 | | | | | | | 35×60 | 2.91 | | | | | | | | |
| 1000 | 102 | | | | | | | | | | | | | | | | |
| 1200 | 122 | | | | | | | | | | | | | | | | |

| WV Size CAP(μF) | | 450V(2W) | | | | | | | |
|-----------------------|-----|----------|--------|-------|--------|-------|--------|-------|--------|
| | | Φ 22 | | Φ 25 | | Φ 30 | | Φ 35 | |
| | | Size | Ripple | Size | Ripple | Size | Ripple | Size | Ripple |
| 68 | 680 | 22×25 | 0.55 | | | | | | |
| 82 | 820 | 22×30 | 0.64 | | | | | | |
| 100 | 101 | 22×35 | 0.70 | 25×25 | 0.70 | | | | |
| 120 | 121 | 22×40 | 0.80 | 25×30 | 0.80 | 30×25 | 0.80 | | |
| 150 | 151 | 22×45 | 0.88 | 25×35 | 0.88 | 30×30 | 0.88 | | |
| 180 | 181 | | | 25×40 | 1.00 | 30×30 | 1.00 | | |
| 220 | 221 | | | 25×45 | 1.10 | 30×35 | 1.10 | 35×30 | 1.12 |
| 270 | 271 | | | | | 30×40 | 1.28 | 35×35 | 1.28 |
| 330 | 331 | | | | | 30×50 | 1.45 | 35×40 | 1.45 |
| 390 | 391 | | | | | | | 35×40 | 1.66 |
| 470 | 471 | | | | | | | 35×50 | 1.85 |
| 560 | 561 | | | | | | | 35×50 | 2.15 |
| 680 | 681 | | | | | | | 35×60 | 2.30 |

Size $\phi D \times L(\text{mm})$

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