

AP 系列  
SERIES

基板自立型105℃过电压对应规格设定品  
105°C, Overvoltage Operation Facility,  
Snap-in Terminal Type

◆特 长 / FEATURES

- 105°C、2000小时品。  
Load Life: 105°C 2000 hours.
- RoHS指令对应品。  
RoHS compliance.
- 电容器上施加过电压时, 对压力阀开启状态进行规格设定的产品。关于详情请咨询我们。  
This series has specification of vent operation in overvoltage situation. Please consult us for any further details.



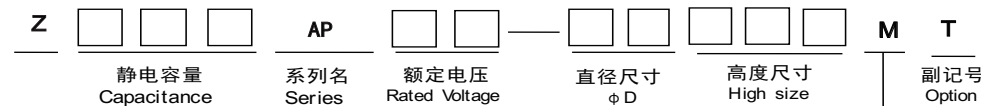
◆规格表 / SPECIFICATIONS

| 项 目 Items   | 特 性 Characteristics  |                               |   |                              |   |                          |   |   |  |
|---|--|-------------------------------|---|------------------------------|---|--------------------------|---|---|--|
| 工作温度范围<br>Category Temperature Range                                | -25 ~ +105°C   |                               |   |                              |   |                          |   |   |  |
| 额定电压范围<br>Rated Voltage Range                                       | 200, 400V.DC   |                               |   |                              |   |                          |   |   |  |
| 静电容量允许差<br>Capacitance Tolerance                                    | ±20% (20°C, 120Hz)   |                               |   |                              |   |                          |   |   |  |
| 漏 电 流<br>Leakage Current(MAX)                                       | $I = 3\sqrt{CV}$ (施加额定电压5分钟后)<br>$I = 3\sqrt{CV}$ (After 5 minutes application of rated voltage)<br>I=漏电流 (µA)                      C=静电容量 (µF)                      V=额定电压 (V)<br>Leakage Current                      Capacitance                      Rated Voltage   |                               |   |                              |   |                          |   |   |  |
| 损失角正切值 (tanδ)<br>Dissipation Factor(MAX)                            | 0.15 (20°C, 120Hz)   |                               |   |                              |   |                          |   |   |  |
| 耐 久 性<br>Endurance  | 在105°C环境中, 不超过额定电压的范围内叠加额定纹波电流, 连续加载2000小时后, 满足以下各项要求。<br>After applying rated voltage with rated ripple current for 2000 hours at 105°C, the capacitors shall meet the following requirements.  |                               |   |                              |   |                          |   |   |  |
|   | <table border="1"> <tr> <td>静电容量变化率<br/>Capacitance Change</td> <td>初期值的±20%以内<br/>Within ±20% of the initial value.</td> </tr> <tr> <td>损失角正切值<br/>Dissipation Factor</td> <td>规格值的200%以下<br/>Not more than 200% of the specified value</td> </tr> <tr> <td>漏 电 流<br/>Leakage Current</td> <td>规格值以下<br/>Not more than the specified value.</td> </tr> </table> | 静电容量变化率<br>Capacitance Change | 初期值的±20%以内<br>Within ±20% of the initial value. | 损失角正切值<br>Dissipation Factor | 规格值的200%以下<br>Not more than 200% of the specified value | 漏 电 流<br>Leakage Current | 规格值以下<br>Not more than the specified value. |   |  |
| 静电容量变化率<br>Capacitance Change                                       | 初期值的±20%以内<br>Within ±20% of the initial value.  |                               |   |                              |   |                          |   |   |  |
| 损失角正切值<br>Dissipation Factor  | 规格值的200%以下<br>Not more than 200% of the specified value  |                               |   |                              |   |                          |   |   |  |
| 漏 电 流<br>Leakage Current  | 规格值以下<br>Not more than the specified value.  |                               |   |                              |   |                          |   |   |  |
| 低温特性<br>Low Temperature Stability<br>(阻抗比)<br>Impedance Ratio (MAX) | <table border="1"> <tr> <td>额定电压 (V)<br/>Rated Voltage</td> <td>200</td> <td>400</td> <td>(120Hz)</td> </tr> <tr> <td>Z(-25°C)/Z(20°C)</td> <td>3</td> <td>8</td> <td></td> </tr> </table>   | 额定电压 (V)<br>Rated Voltage     | 200   | 400                          | (120Hz)   | Z(-25°C)/Z(20°C)         | 3   | 8 |  |
| 额定电压 (V)<br>Rated Voltage   | 200  | 400                           | (120Hz)   |                              |   |                          |   |   |  |
| Z(-25°C)/Z(20°C)  | 3  | 8                             |   |                              |   |                          |   |   |  |

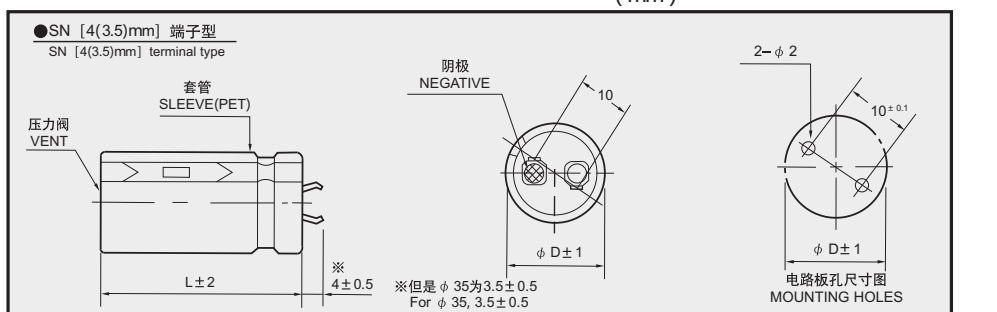
◆纹波电流修正系数 / MULTIPLIER FOR RIPPLE CURRENT

| 频率 (Hz) Frequency | 60(50)        | 120  | 500  | 1k   | 10k≤ |
|-------------------|---------------|------|------|------|------|
| 系数<br>Coefficient | 200VV<br>0.80 | 1.00 | 1.10 | 1.14 | 1.18 |
|                   | 400VV<br>0.80 | 1.00 | 1.05 | 1.10 | 1.15 |

◆产品型号体系 / PARTNUMBER



◆尺寸图 / DIMENSIONS



## ◆标准品一览表/STANDARD SIZE

| Cap(μF) | V.DC |  | 200   |      |       |      |       |      |       |      |       |      |
|---------|------|--|-------|------|-------|------|-------|------|-------|------|-------|------|
|         | φD   |  | φ 20  |      | φ 22  |      | φ 25  |      | φ 30  |      | φ 35  |      |
| 82      |      |  | 20×20 | 0.42 |       |      |       |      |       |      |       |      |
| 100     |      |  | 20×20 | 0.47 | 22×20 | 0.51 |       |      |       |      |       |      |
| 120     |      |  | 20×20 | 0.52 | 22×20 | 0.56 |       |      |       |      |       |      |
| 150     |      |  | 20×25 | 0.69 | 22×25 | 0.69 | 25×20 | 0.63 |       |      |       |      |
| 180     |      |  | 20×25 | 0.75 | 22×25 | 0.75 | 25×20 | 0.70 |       |      |       |      |
| 220     |      |  | 20×30 | 0.87 | 22×25 | 0.88 | 25×25 | 0.88 | 30×20 | 0.85 |       |      |
| 270     |      |  | 20×35 | 1.00 | 22×25 | 0.99 | 25×25 | 0.99 | 30×20 | 0.95 |       |      |
| 330     |      |  | 20×40 | 1.20 | 22×30 | 1.20 | 25×25 | 1.20 | 30×20 | 1.05 | 35×20 | 1.08 |
|         |      |  |       |      |       |      |       |      | 30×25 | 1.20 |       |      |
| 390     |      |  |       |      | 22×35 | 1.30 | 25×30 | 1.34 | 30×25 | 1.30 | 35×20 | 1.15 |
| 470     |      |  |       |      | 22×40 | 1.44 | 25×30 | 1.44 | 30×25 | 1.48 | 35×25 | 1.48 |
| 560     |      |  |       |      | 22×45 | 1.60 | 25×35 | 1.60 | 30×30 | 1.60 | 35×25 | 1.58 |
| 680     |      |  |       |      |       |      | 25×40 | 1.76 | 30×30 | 1.74 | 35×25 | 1.74 |
| 820     |      |  |       |      |       |      |       |      | 30×35 | 2.11 | 35×30 | 2.10 |
| 1000    |      |  |       |      |       |      |       |      | 30×45 | 2.40 | 35×30 | 2.30 |
|         |      |  |       |      |       |      |       |      |       |      | 35×35 | 2.30 |
| 1200    |      |  |       |      |       |      |       |      |       |      | 35×35 | 2.65 |
|         |      |  |       |      |       |      |       |      |       |      | 35×40 | 2.65 |
| 1500    |      |  |       |      |       |      |       |      |       |      | 35×45 | 3.08 |

| Cap(μF) | V.DC |  | 400   |      |       |      |       |      |       |      |       |      |
|---------|------|--|-------|------|-------|------|-------|------|-------|------|-------|------|
|         | φD   |  | φ 20  |      | φ 22  |      | φ 25  |      | φ 30  |      | φ 35  |      |
| 22      |      |  | 20×20 | 0.20 |       |      |       |      |       |      |       |      |
| 27      |      |  | 20×20 | 0.22 | 22×20 | 0.23 |       |      |       |      |       |      |
| 33      |      |  | 20×20 | 0.25 | 22×20 | 0.25 |       |      |       |      |       |      |
| 39      |      |  | 20×25 | 0.35 | 22×20 | 0.28 | 25×20 | 0.30 |       |      |       |      |
| 47      |      |  | 20×25 | 0.39 | 22×25 | 0.39 | 25×20 | 0.34 |       |      |       |      |
| 56      |      |  | 20×30 | 0.44 | 22×25 | 0.45 | 25×20 | 0.39 | 30×20 | 0.41 |       |      |
|         |      |  |       |      |       |      | 25×25 | 0.45 |       |      |       |      |
| 68      |      |  | 20×35 | 0.51 | 22×25 | 0.49 | 25×25 | 0.49 | 30×20 | 0.45 |       |      |
| 82      |      |  | 20×40 | 0.57 | 22×30 | 0.56 | 25×25 | 0.56 | 30×20 | 0.50 | 35×20 | 0.51 |
|         |      |  |       |      |       |      |       |      | 30×25 | 0.56 |       |      |
| 100     |      |  |       |      | 22×35 | 0.62 | 25×30 | 0.61 | 30×25 | 0.59 | 35×20 | 0.54 |
| 120     |      |  |       |      | 22×40 | 0.73 | 25×30 | 0.73 | 30×25 | 0.73 | 35×20 | 0.61 |
| 150     |      |  |       |      | 22×45 | 0.85 | 25×35 | 0.85 | 30×30 | 0.79 | 35×25 | 0.78 |
| 180     |      |  |       |      |       |      | 25×40 | 0.94 | 30×30 | 0.95 | 35×25 | 0.95 |
| 220     |      |  |       |      |       |      | 25×45 | 1.07 | 30×35 | 1.24 | 35×30 | 1.24 |
| 270     |      |  |       |      |       |      |       |      | 30×35 | 1.35 | 35×35 | 1.28 |
|         |      |  |       |      |       |      |       |      | 30×40 | 1.30 |       |      |
| 330     |      |  |       |      |       |      |       |      | 30×45 | 1.47 | 35×35 | 1.41 |
| 390     |      |  |       |      |       |      |       |      |       |      | 35×40 | 1.59 |
| 470     |      |  |       |      |       |      |       |      |       |      | 35×45 | 1.87 |

纹波电流 Ripple Current (A r.m.s./120Hz, 105°C)  
铝壳尺寸 Case Size φ D × L(mm)