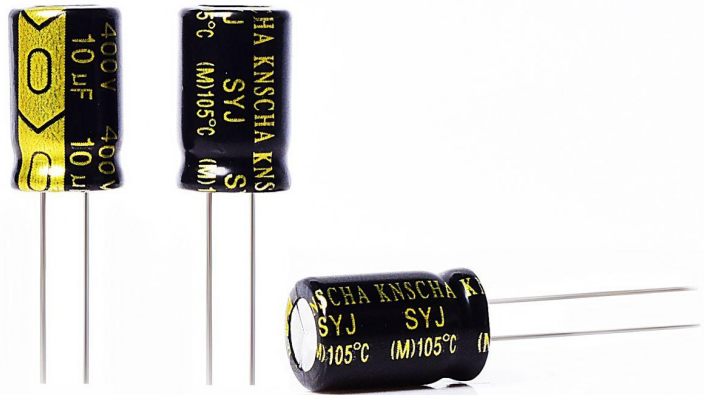


## SYJ SERIES

- Wide operating temperature range of - 25 ~ + 105°C  
工作温度范围：-25~+105°C
- Miniaturized high ripple current  
通用型号的标准品
- Voltage range of 400V-450V  
工作电压：400V-450V
- Load life of 5000 hours at 105°C  
使用寿命：105°C 5000小时
- TiO<sub>2</sub> Organic metal capacitor NEW

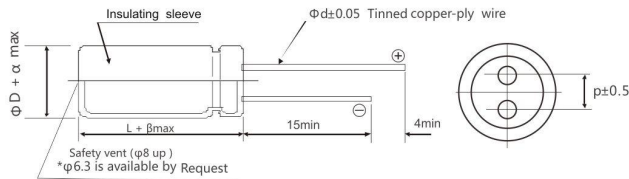


### SPECIFICATIONS 技术参数

| Item (项目)  | Characteristics (特征)  |   |   |
|--|---|---|---|
| Operating Temperature Range<br>(使用温度范围)  | - 25 ~ + 105°C  |   |   |
| Rated Voltage (额定电压)   | 400-450 V.DC  |   |   |
| Capacitance Range(容量范围)  | 2.2 ~ 100 µF  |   |   |
| Temperature Frequency Range<br>(温度频率范围)  | -20% +20% (at 20°C, 120Hz)  |   |   |
| Leakage Current<br>漏电流   | WV  | 400-450 V   |   |
|  | L.C.  | I = 0.02CV + 15(µA) whichever is greater(after 5min)<br>施加额定电压5分钟测试 |   |
| where, I: Max Leakage Current (µA); C: Nominal Capacitance (µF), V: Rated Voltage(V) (at 20°C)<br>注解：I:漏电流µA C:容量(µF), V: 额定电压(V) (在 20°C) |   |   |   |
| Dissipation Factor (tanδ)<br>(at 120Hz, +20°C)<br>(损失角正切)  | W.V.  | 400   | 450   |
|  | tanδ  | 0.20  | 0.20  |
| Low Temp. Impedance<br>Stability at 120Hz<br>(温度特性)  | W. V.   | 400   | 450   |
|  | Z-25°C /Z+20°C  | 8   | 8   |
|  | Z-40°C /Z+20°C  | -   | -   |
| High Temp. Load Test<br>(高温负荷特性)   | After 5000 hours, application of DC rated working voltage at + 105°C, the capacitor shall meet the following limits. 105°C施加额定电压5000小时后满足下列条件<br>Capacitance change ... ≤±30% of the initial measured value 容量在±20%范围内<br>Tan δ ... ≤ 250% of the initial specified value 损失角在初始规定值200%<br>DC leakage current ... ≤ the initial specified value 漏电流小于或等于规格值 |   |   |
| High Temp. Non-Load Test<br>(高温无负荷特性)  | After storage for 1000 hours at 105°C with no voltage applied, voltage treatment of JIS-C-5102 article 4-4 is to be given and then measurement shall be made, at which time requirements specified in the table "High Temperature Loading" can be meet.   |   | 在105°C的条件下不加电压放置1000个小时,按照 JIS-C-5102 中4-4的标准进行处理, 特性满足高温负荷特性 |

## SYJ SERIES

### DIMENSIONS(mm) 尺寸



Unit:(mm)

|          |     |     |     |     |     |     |     |
|----------|-----|-----|-----|-----|-----|-----|-----|
| $\phi D$ | 5   | 6.3 | 8   | 10  | 13  | 16  | 18  |
| P        | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |
| $\phi d$ | 0.5 |     |     | 0.6 |     | 0.8 |     |
| $\beta$  | 1.0 |     |     | 1.5 |     |     |     |
| $\alpha$ | 0.5 |     |     |     |     |     |     |

### MULTIPLIER FOR RIPPLE CURRENT 纹波电流修正系数

#### (1) Frequency coefficient 频率系数

| Cap( $\mu F$ ) | Freq.(Hz) | 60(50) | 120  | 300  | 1K   | 10K  | 100K |
|----------------|-----------|--------|------|------|------|------|------|
| 0.1~47         |           | 0.75   | 1.00 | 1.35 | 1.55 | 2.00 | 2.10 |
| 68~680         |           | 0.80   | 1.00 | 1.55 | 1.65 | 1.85 | 2.30 |
| 1000~15000     |           | 0.85   | 1.00 | 1.65 | 1.75 | 1.90 | 2.40 |

#### (2) Temperature coefficient 温度系数

| Ambient Temperature( $^{\circ}C$ ) | 40  | 60  | 70   | 85   | 105 |
|------------------------------------|-----|-----|------|------|-----|
| Coefficient                        | 2.4 | 2.1 | 1.78 | 1.65 | 1   |

### STANDARD SIZE 标准品一览表

| WV(VDC) | Cap( $\mu F$ ) /120Hz | Case size | Ripple (mArms 105 $^{\circ}C$ 100KHz) | WV(VDC) | Cap( $\mu F$ ) /120Hz | Case size | Ripple (mArms 105 $^{\circ}C$ 100KHz) |  |
|---------|-----------------------|-----------|---------------------------------------|---------|-----------------------|-----------|---------------------------------------|--|
| 额定电压    | 容量                    | 尺寸DxL     | 纹波电流                                  | 额定电压    | 容量                    | 尺寸DxL     | 纹波电流                                  |  |
| 400     | 2.2                   | 6.3x11    | 125                                   | 450     | 2.2                   | 8x12      | 130                                   |  |
|         | 3.3                   | 8x12      | 145                                   |         | 3.3                   | 8x12      | 155                                   |  |
|         | 4.7                   | 8x12      | 195                                   |         | 4.7                   | 10x13     | 205                                   |  |
|         | 6.8                   | 10x13     | 210                                   |         | 6.8                   | 10x16     | 220                                   |  |
|         | 10                    | 10x13     | 450                                   |         | 10                    | 10x20     | 460                                   |  |
|         | 10                    | 10x16     | 490                                   |         | 10                    | 13x16     | 495                                   |  |
|         | 15                    | 10x16     | 510                                   |         | 15                    | 13x20     | 525                                   |  |
|         | 15                    | 10x20     | 530                                   |         | 22                    | 16x20     | 535                                   |  |
|         | 22                    | 13x16     | 580                                   |         | 33                    | 16x25     | 698                                   |  |
|         | 22                    | 13x20     | 600                                   |         | 47                    | 18x25     | 810                                   |  |
|         | 33                    | 13x25     | 680                                   |         |                       |           |                                       |  |
|         | 33                    | 16x20     | 710                                   |         |                       |           |                                       |  |
|         | 47                    | 16x20     | 730                                   |         |                       |           |                                       |  |
|         | 47                    | 16x25     | 750                                   |         |                       |           |                                       |  |
|         | 68                    | 18x25     | 790                                   |         |                       |           |                                       |  |
|         | 100                   | 18x32     | 820                                   |         |                       |           |                                       |  |

SHW系列  
SHL系列  
SHF系列  
SHT系列  
SHG系列  
MHT系列  
SYJ系列  
SHX系列  
SX30系列  
SHA系列  
ST-50系列  
ST-03系列  
PB/PA/PV/P5系列

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