



●導電性高分子固体コンデンサ



●CONDUCTIVE POLYMER SOLID CAPACITORS

PVK

JIS C 5101 CE-32

TYPE PVK

JIS C 5101 CE-32

■特徴

- ・105°C、15000時間保証品
- ・低ESR チップ形固体コンデンサ

■FEATURES

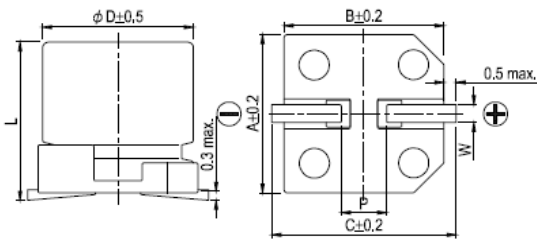
- ・It's guaranteed for 105°C 15000 hours.
- ・Low ESR, solid capacitors of SMD type

■性能/PERFORMANCE SPECIFICATIONS

|   |   |   |
|---|---|---|
| カテゴリー温度範囲   | CATEGORY TEMPERATURE RANGE  | -55°C ~ +105°C  |
| 標準静電容量許容差   | STANDARD CAPACITANCE TOLERANCE  | ±20% (120Hz, 20°C)  |
| 漏れ電流 (最大値)  | LEAKAGE CURRENT (MAX.VALUE)   | Rated voltage applied, after 2 minutes at 20°C.<br>See Standard Ratings   |
| 損失角の正接: tan δ (最大値)                                       | DISSIPATION FACTOR: tan δ (MAX.VALUE)   | See Standard Ratings (120Hz, 20°C)  |
| ESR   | ESR   | See Standard Ratings (100kHz~300kHz, 20°C)  |
| 耐久性<br>105°C, 15000時間<br>5×4.4, 6.3×4.4: 3000時間<br>定格電圧印加 | ENDURANCE<br>APPLICATION OF RATED VOLTAGE,<br>AT 105°C FOR 15,000 hours.<br>For 5×4.4, 6.3×4.4: 3,000 hours | Capacitance Change : Within ±20% of the initial value<br>Dissipation Factor (tan δ) Less than 150% of specified value<br>ESR : Less than 150% of specified value<br>Leakage Current : Less than the initial specified value   |
| 耐湿負荷特性<br>(定常)<br>60°C, 90~95%, 1000時間                    | Moisture resistance<br>(STEADY STATE)<br>60°C, 90~95%, 1000 hours   | Capacitance Change : Within ±20% of the initial value<br>Dissipation Factor (tan δ) Less than 150% of specified value<br>ESR : Less than 150% of specified value<br>Leakage Current : Less than the initial specified value<br>*Leakage current should be tested after treatment*1. |

\*1: For any doubt measured values, measure the leakage current again after the following voltage treatment.  
Voltage treatment: DC rated voltage is applied to the capacitors for 2 hours at 105°C.

■寸法図/DIAGRAM OF DIMENSIONS



| Size Code | φ D | L                         | A±0.2 | B±0.2 | C±0.2 | W       | P±0.2 |
|-----------|-----|---------------------------|-------|-------|-------|---------|-------|
| D44       | 5   | 4.4±0.2                   | 5.3   | 5.3   | 5.9   | 0.5~0.8 | 1.5   |
| D58       | 5   | 5.8±0.3                   | 5.3   | 5.3   | 5.9   | 0.5~0.8 | 1.5   |
| E44       | 6.3 | 4.4±0.2                   | 6.6   | 6.6   | 7.2   | 0.5~0.8 | 2.0   |
| E58       | 6.3 | 5.8±0.3                   | 6.6   | 6.6   | 7.2   | 0.5~0.8 | 2.0   |
| E77       | 6.3 | 7.7±0.3                   | 6.6   | 6.6   | 7.2   | 0.5~0.8 | 2.0   |
| F67       | 8   | 6.7±0.3                   | 8.3   | 8.3   | 9.0   | 0.7~1.1 | 3.1   |
| F77       | 8   | 7.7±0.3                   | 8.3   | 8.3   | 9.0   | 0.7~1.1 | 3.1   |
| F10       | 8   | 10.0±0.5                  | 8.3   | 8.3   | 9.0   | 0.7~1.1 | 3.1   |
| G77       | 10  | 7.7±0.3                   | 10.3  | 10.3  | 11.0  | 0.7~1.3 | 4.7   |
| G10       | 10  | 10.0±0.5                  | 10.3  | 10.3  | 11.0  | 0.7~1.3 | 4.7   |
| G13       | 10  | 12.6 <sup>+0.1/-0.4</sup> | 10.3  | 10.3  | 11.0  | 0.7~1.3 | 4.7   |

■標準品一覧表 / STANDARD PRODUCT TABLE

| W.V.<br>(V) | Cap.<br>(μF) | Size<br>(φ D × L)<br>(mm) | tan δ<br>(120Hz, 20°C) | Leakage<br>Current<br>(μA) | ESR<br>[100~300kHz, 20°C]<br>(mΩ) | Ripple Current<br>[100kHz, 105°C]<br>(mA) |
|-------------|--------------|---------------------------|------------------------|----------------------------|-----------------------------------|---|
| 16<br>(1C)  | 39           | 5×4.4                     | 0.12                   | 312                        | 50                                | 1,840                                     |
|             | 47           | 5×4.4                     | 0.12                   | 376                        | 50                                | 1,840                                     |
|             | 68           | 6.3×4.4                   | 0.12                   | 544                        | 40                                | 2,450                                     |
|             | 100          | 5×5.8                     | 0.12                   | 320                        | 27                                | 3,000                                     |
|             | 180          | 6.3×5.8                   | 0.12                   | 576                        | 22                                | 3,300                                     |
|             | 220          | 6.3×7.7                   | 0.12                   | 704                        | 22                                | 3,300                                     |
|             | 270          | 8×6.7                     | 0.12                   | 864                        | 22                                | 3,300                                     |
|             | 330          | 8×7.7                     | 0.12                   | 1050                       | 21                                | 3,400                                     |
|             | 330          | 8×10                      | 0.12                   | 1050                       | 21                                | 3,400                                     |
|             | 560          | 8×10                      | 0.12                   | 1790                       | 18                                | 3,900                                     |
|             | 820          | 10×10                     | 0.12                   | 2620                       | 16                                | 4,200                                     |
|             | 820          | 10×12.6                   | 0.12                   | 2620                       | 12                                | 5,400                                     |
| 1,000       | 10×10        | 0.12                      | 3200                   | 18                         | 4,100                             |   |
| 1,000       | 10×12.6      | 0.12                      | 3200                   | 12                         | 5,400                             |   |
| 20<br>(1D)  | 27           | 5×4.4                     | 0.12                   | 270                        | 55                                | 1,770                                     |
|             | 33           | 5×4.4                     | 0.12                   | 330                        | 55                                | 1,770                                     |
|             | 47           | 5×5.8                     | 0.12                   | 188                        | 30                                | 2,800                                     |
|             | 47           | 6.3×4.4                   | 0.12                   | 470                        | 42                                | 2,400                                     |
|             | 56           | 5×5.8                     | 0.12                   | 224                        | 30                                | 2,800                                     |
|             | 120          | 6.3×5.8                   | 0.12                   | 480                        | 25                                | 3,200                                     |
|             | 150          | 6.3×7.7                   | 0.12                   | 600                        | 25                                | 3,200                                     |
|             | 180          | 8×6.7                     | 0.12                   | 720                        | 25                                | 3,200                                     |
|             | 220          | 8×7.7                     | 0.12                   | 880                        | 23                                | 3,300                                     |
|             | 220          | 8×10                      | 0.12                   | 880                        | 23                                | 3,400                                     |
|             | 390          | 8×10                      | 0.12                   | 1560                       | 20                                | 3,700                                     |
|             | 560          | 10×10                     | 0.12                   | 2240                       | 18                                | 4,100                                     |

| W.V.<br>(V) | Cap.<br>(μF) | Size<br>(φ D × L)<br>(mm) | tan δ<br>(120Hz, 20°C) | Leakage<br>Current<br>(μA) | ESR<br>[100~300kHz, 20°C]<br>(mΩ) | Ripple Current<br>[100kHz, 105°C]<br>(mA) |
|-------------|--------------|---------------------------|------------------------|----------------------------|-----------------------------------|---|
| 25<br>(1E)  | 10           | 5×4.4                     | 0.12                   | 125                        | 60                                | 1,700                                     |
|             | 22           | 5×5.8                     | 0.12                   | 110                        | 40                                | 2,450                                     |
|             | 22           | 6.3×4.4                   | 0.12                   | 275                        | 45                                | 2,350                                     |
|             | 27           | 5×5.8                     | 0.12                   | 135                        | 40                                | 2,450                                     |
|             | 39           | 6.3×5.8                   | 0.12                   | 195                        | 30                                | 2,800                                     |
|             | 47           | 6.3×5.8                   | 0.12                   | 235                        | 30                                | 2,800                                     |
|             | 56           | 6.3×5.8                   | 0.12                   | 280                        | 30                                | 2,800                                     |
|             | 56           | 6.3×7.7                   | 0.12                   | 280                        | 28                                | 2,800                                     |
|             | 68           | 8×6.7                     | 0.12                   | 340                        | 28                                | 3,000                                     |
|             | 82           | 8×7.7                     | 0.12                   | 410                        | 26                                | 3,100                                     |
|             | 100          | 8×10                      | 0.12                   | 500                        | 24                                | 3,300                                     |
|             | 120          | 8×10                      | 0.12                   | 600                        | 22                                | 3,500                                     |
| 150         | 10×7.7       | 0.12                      | 750                    | 25                         | 3,400                             |   |
| 220         | 10×10        | 0.12                      | 1100                   | 20                         | 3,800                             |   |

■リップル電流周波数補正係数 / Frequency Multiplier for Ripple Current

| Frequency: f (Hz) | 120 ≤ f < 1k | 1k ≤ f < 10k | 10k ≤ f < 100k | 100k ≤ f < 500k |
|-------------------|--------------|--------------|----------------|-----------------|
| Multiplier        | 0.05         | 0.30         | 0.70           | 1.00            |

■品番ご指定法/HOW TO SPECIFY NUMBER

1C PVK 680 M L □ □ □

