

## 特徴／Features

- スナバ回路、小ワット共振回路に最適です。
  - 外装樹脂はエポキシ樹脂でディップされ、耐湿性、耐溶剤性に優れています。
  - 容量の温度特性は負の特性を示します。
  - 誘電正接が極めて小さく、容量の経時変化も小さい製品です。
- ★ Suitable for snubber circuits, small watts resonant circuits.
  - ★ Protected against moisture and solvent through our original epoxy resin vacuum impregnation.
  - ★ Temperature characteristic of capacitance is negative.
  - ★ Tangent of loss angle is very low, with an excellent long stability.

## 規格／Specifications

|                               |                                                                                             |                               |                                                                                                                                                            |
|-------------------------------|---------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 使用温度範囲<br>Temp. range         | -40~+85°C                                                                                   | 絶縁抵抗<br>Insulation resistance | 30000MΩ 以上<br>or more                                                                                                                                      |
| 定格電圧<br>Rated voltage         | 100V, 250V, 400Vdc                                                                          | 高温負荷<br>Endurance             | 85°C、WV×140% 1000h印加<br>$\Delta C/C \pm 3\%$ 許容 in $\tan \delta \quad C \leq 0.10 \mu F \quad 0.0011$ 以下 less<br>$C > 0.10 \mu F \quad 0.0013$ 以下 less     |
| 静電容量範囲<br>Capacitance         | 100V 0.00010~0.22μF, 250V 0.00010~0.010μF<br>400V 0.0010~0.010μF                            | 耐湿負荷<br>Damp heat             | 40°C、90~95%RH、WV 1000h印加<br>$\Delta C/C \pm 3\%$ 許容 in $\tan \delta \quad C \leq 0.10 \mu F \quad 0.0012$ 以下 less<br>$C > 0.10 \mu F \quad 0.0014$ 以下 less |
| 静電容量許容差<br>Cap. tolerance     | 100V ±1%(F), ±2%(G), ±5%(J), ±10%(K)<br>250V, 400V ±5%(J), ±10%(K)                          |                               | IR 15,000MΩ 以上<br>or more                                                                                                                                  |
| 誘電正接<br>Tangent of loss angle | $C \leq 0.10 \mu F \quad 0.0010$ 以下 less<br>$C > 0.10 \mu F \quad 0.0012$ 以下 less (at 1kHz) |                               | IR 10,000MΩ 以上<br>or more                                                                                                                                  |

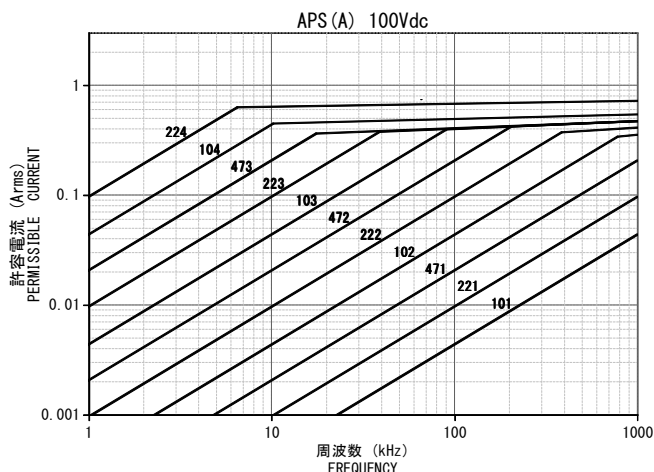
| 形状<br>Style         | ストレートリード<br>Straight lead type |         | フォーミング<br>Formed lead type |         |         |
|---------------------|--------------------------------|---------|----------------------------|---------|---------|
|                     |                                |         |                            |         |         |
| Cap範囲<br>Cap. range | 100Vdc                         | 101~224 | 123~124                    | 134~224 | 101~113 |
|                     | 250Vdc                         | 101~103 | —                          | —       | 101~103 |
|                     | 400Vdc                         | 102~103 | 102~103                    | —       | —       |

## 寸法／Dimension (mm)

| Cap<br>CODE | Cap<br>(μF) | APS (A) 100Vdc |      |     |      |         |     | 基準収納数 NUMBER OF PIECES FOR PACKING UNIT |             |                  |           |
|-------------|-------------|----------------|------|-----|------|---------|-----|-----------------------------------------|-------------|------------------|-----------|
|             |             | W              | H    | T   | P    | F       | φ d | テーピング<br>Taping                         | ロング<br>Long | フォーミング<br>Formed |           |
| 101         | 0.00010     | 6.0            | 9.0  | 4.0 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 121         | 0.00012     | 6.0            | 9.0  | 4.0 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 151         | 0.00015     | 6.0            | 9.0  | 4.0 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 181         | 0.00018     | 6.0            | 9.0  | 4.0 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 221         | 0.00022     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 271         | 0.00027     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 331         | 0.00033     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 391         | 0.00039     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 471         | 0.00047     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 561         | 0.00056     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 681         | 0.00068     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 821         | 0.00082     | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 102         | 0.0010      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 122         | 0.0012      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 152         | 0.0015      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 182         | 0.0018      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 222         | 0.0022      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 272         | 0.0027      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 332         | 0.0033      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 392         | 0.0039      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 472         | 0.0047      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 562         | 0.0056      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 682         | 0.0068      | 6.0            | 8.5  | 3.5 | 3.5  | 5.0     | 0.5 | 2,000                                   | 200         | 3,000            | 200 5,000 |
| 822         | 0.0082      | 7.0            | 9.5  | 4.0 | 3.5  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 4,000 |
| 103         | 0.010       | 7.0            | 9.5  | 4.0 | 3.5  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 3,000 |
| 123         | 0.012       | 7.5            | 10.5 | 4.0 | 5.0  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 3,000 |
| 153         | 0.015       | 7.5            | 10.5 | 4.5 | 5.0  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 3,000 |
| 183         | 0.018       | 8.0            | 11.0 | 5.0 | 5.0  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 3,000 |
| 223         | 0.022       | 8.0            | 11.0 | 5.0 | 5.0  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 3,000 |
| 273         | 0.027       | 9.0            | 12.0 | 5.5 | 5.0  | 5.0     | 0.5 | 1,000                                   | 200         | 2,000            | 200 3,000 |
| 333         | 0.033       | 9.0            | 12.0 | 5.5 | 5.0  | 5.0     | 0.5 | 1,000                                   | 200         | 1,000            | 200 2,000 |
| 393         | 0.039       | 10.0           | 13.0 | 6.0 | 7.5  | 5.0/7.5 | 0.5 | 1,000                                   | 200         | 1,000            | 200 2,000 |
| 473         | 0.047       | 10.0           | 13.0 | 6.0 | 7.5  | 5.0/7.5 | 0.5 | 1,000                                   | 200         | 1,000            | 200 1,000 |
| 563         | 0.056       | 11.0           | 14.0 | 6.0 | 7.5  | 5.0/7.5 | 0.5 | 1,000                                   | 200         | 1,000            | 100 1,000 |
| 683         | 0.068       | 11.0           | 14.0 | 6.5 | 7.5  | 5.0/7.5 | 0.5 | 500                                     | 200         | 1,000            | 100 1,000 |
| 823         | 0.082       | 11.5           | 14.0 | 7.0 | 7.5  | 5.0/7.5 | 0.5 | 500                                     | 200         | 1,000            | 100 1,000 |
| 104         | 0.10        | 12.0           | 14.0 | 7.5 | 7.5  | 5.0/7.5 | 0.5 | 500                                     | 100         | 500              | 100 1,000 |
| 124         | 0.12        | 13.0           | 14.0 | 8.0 | 7.5  | 5.0/7.5 | 0.5 | 500                                     | 100         | 500              | 100 500   |
| 154         | 0.15        | 14.0           | 19.5 | 7.5 | 10.0 | 5.0/7.5 | 0.6 |                                         | 100         | 500              | 50 500    |
| 184         | 0.18        | 15.0           | 19.5 | 7.5 | 10.0 | 5.0/7.5 | 0.6 |                                         | 100         | 500              | 50 500    |
| 224         | 0.22        | 15.0           | 19.5 | 8.0 | 10.0 | 5.0/7.5 | 0.6 |                                         | 100         | 500              | 50 500    |

## 周波数に対する許容電流特性

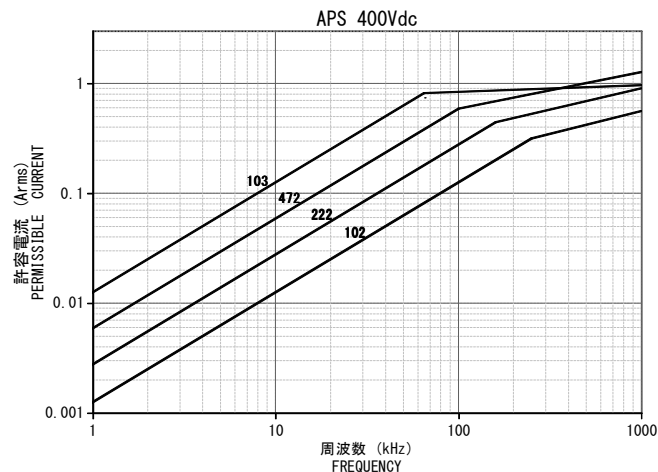
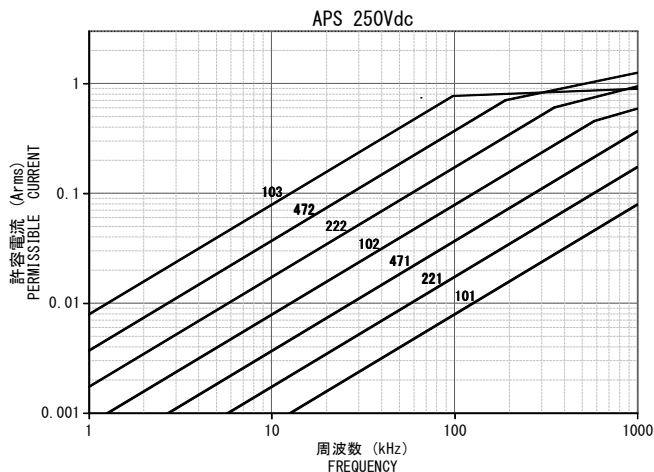
Characteristics of permissible current to frequency



### 寸法／Dimension (mm)

| Cap<br>CODE | Cap<br>( $\mu$ F) | APS 250V. dc |      |     |     |     |          |       | 基準収納数 NUMBER OF PIECES FOR PACKING UNIT |       |             |       |                  | APS 400V. dc |     |     |     |          |       |     | 基準収納数 NUMBER OF PIECES FOR PACKING UNIT |     |             |  |                  |
|-------------|-------------------|--------------|------|-----|-----|-----|----------|-------|-----------------------------------------|-------|-------------|-------|------------------|--------------|-----|-----|-----|----------|-------|-----|-----------------------------------------|-----|-------------|--|------------------|
|             |                   |              |      |     |     |     |          |       | テーピング<br>Taping                         |       | ロング<br>Long |       | フォーミング<br>Formed |              |     |     |     |          |       |     | テーピング<br>Taping                         |     | ロング<br>Long |  | フォーミング<br>Formed |
|             |                   | W            | H    | T   | P   | F   | $\phi$ d | Ammo  | Bag                                     | Box   | Bag         | Box   | W                | H            | T   | P   | F   | $\phi$ d | Ammo  | Bag | Box                                     | Bag | Box         |  |                  |
| 101         | 0.0010            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 121         | 0.0012            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 151         | 0.0015            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 181         | 0.0018            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 221         | 0.0022            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 271         | 0.0027            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 331         | 0.0033            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 391         | 0.0039            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 471         | 0.0047            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 561         | 0.0056            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 681         | 0.0068            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 821         | 0.0082            | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 |                  |              |     |     |     |          |       |     |                                         |     |             |  |                  |
| 102         | 0.010             | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 | 7.2              | 10.0         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 122         | 0.012             | 6.5          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 | 7.5              | 10.0         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 152         | 0.015             | 7.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 5,000 | 7.5              | 10.0         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 182         | 0.018             | 6.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 2,000 | 200                                     | 3,000 | 200         | 4,000 | 7.4              | 10.5         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 222         | 0.022             | 6.3          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 3,000 | 200         | 4,000 | 7.4              | 10.5         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 272         | 0.027             | 6.5          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 3,000 | 200         | 4,000 | 7.5              | 13.0         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 332         | 0.033             | 7.0          | 8.5  | 4.0 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 3,000 | 200         | 4,000 | 7.5              | 13.0         | 4.5 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 392         | 0.039             | 7.0          | 10.0 | 4.0 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 3,000 | 200         | 3,000 | 8.0              | 13.0         | 5.0 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 472         | 0.047             | 7.5          | 10.5 | 4.0 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 3,000 | 200         | 3,000 | 8.0              | 13.0         | 5.0 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 562         | 0.056             | 8.0          | 11.0 | 4.5 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 2,000 | 200         | 3,000 | 8.2              | 13.5         | 5.0 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 682         | 0.068             | 8.0          | 11.0 | 5.0 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 2,000 | 200         | 3,000 | 8.2              | 13.5         | 5.0 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 2,000                                   | 200 | 3,000       |  |                  |
| 822         | 0.082             | 8.0          | 11.0 | 5.5 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 2,000 | 200         | 3,000 | 9.0              | 13.5         | 5.0 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 1,000                                   | 200 | 2,000       |  |                  |
| 103         | 0.10              | 8.5          | 11.0 | 5.5 | 3.5 | 5.0 | 0.5      | 1,000 | 200                                     | 2,000 | 200         | 3,000 | 9.5              | 13.5         | 5.0 | 5.0 | 5.0 | 0.5      | 1,000 | 200 | 1,000                                   | 200 | 2,000       |  |                  |

### 周波数に対する許容電流特性／Characteristics of permissible current to frequency



### 使用上の注意／Caution

●APSは、構造上およびフィルム性質上、熱に敏感です。はんだ付け時の取り扱いについては、11頁の”はんだ付け作業について”をご覧ください。

★APS is sensitive for heating due to its construction and film material.  
Refer to instructions for soldering handling of page 11.