

FEATURES

- Low dissipation factor
- High insulation resistance
- High stability of capacitance and DF versus temperature and frequency
- Self-healing properties
- Non-inductive construction
- Epoxy resin coating



CHARACTERISTICS

| Item                          | Characteristics                                 |
|-------------------------------|-------------------------------------------------|
| Operating Temperature Range   | -40°C ~ +85°C                                   |
| Capacitance Tolerance         | ±5%, ±10%, ±20%                                 |
| Standard Working Voltage (WV) | 100, 250, 400, 630                              |
| Dissipation Factor            | 0.1% max. (1KHz), 25°C                          |
| Insulation Resistance         | ≤.33µF is >30,000MΩ; >.33µF is >10,000MΩ per µF |

PART NUMBERING SYSTEM

1429

-

2

SeriesVoltage

104

1st digit2nd digit#  
ø's

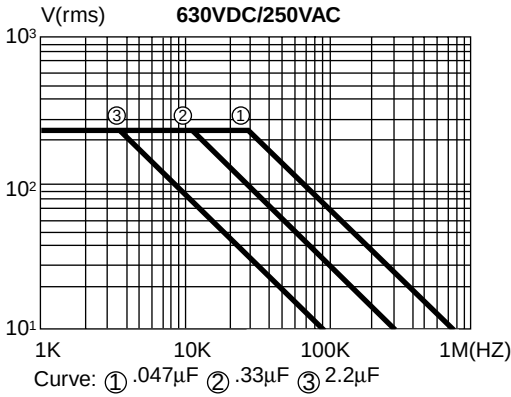
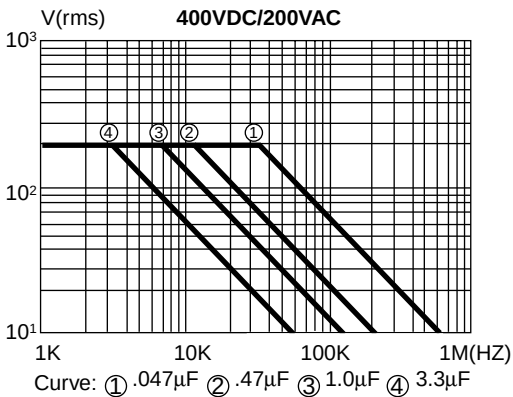
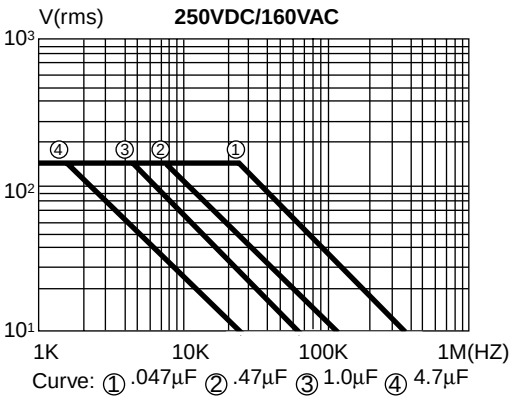
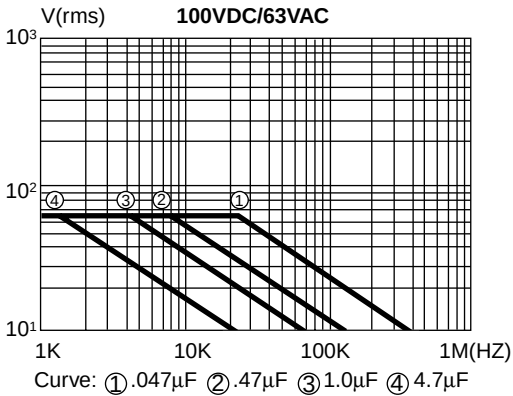
Value (pF)

Tolerance

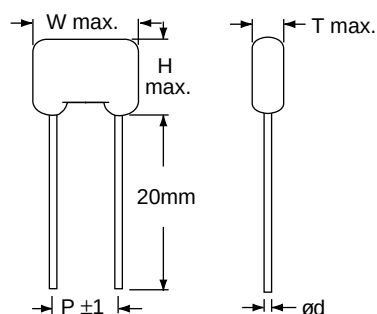
| Voltage Code: |
|---------------|
| 1 = 100       |
| 2 = 250       |
| 4 = 400       |
| 6 = 630       |

| Tolerance Code: |
|-----------------|
| J = ±5%         |
| (blank) = ±10%  |
| M = ±20%        |

TYPICAL PERFORMANCE CHARACTERISTICS: RATED VOLTAGE VS FREQUENCY



## DIMENSIONS



| Value<br>( $\mu$ F) | Working Voltage (WV); Dimensions (mm) |      |          |                    |      |          |                    |      |          |                    |      |          |
|---------------------|---------------------------------------|------|----------|--------------------|------|----------|--------------------|------|----------|--------------------|------|----------|
|                     | 100                                   |      |          | 250                |      |          | 400                |      |          | 630                |      |          |
|                     | W x H x T                             | P    | $\phi d$ | W x H x T          | P    | $\phi d$ | W x H x T          | P    | $\phi d$ | W x H x T          | P    | $\phi d$ |
| 0.01                | 10.5 x 9.0 x 6.0                      | 7.5  | 0.6      | 10.5 x 9.0 x 6.0   | 7.5  | 0.6      | 13.0 x 10.0 x 6.5  | 10   | 0.6      | 13.0 x 11.0 x 6.5  | 10   | 0.6      |
| 0.015               | 10.5 x 9.5 x 6.0                      | 7.5  | 0.6      | 10.5 x 9.5 x 6.0   | 7.5  | 0.6      | 13.0 x 10.5 x 6.5  | 10   | 0.6      | 13.0 x 11.5 x 7.0  | 10   | 0.6      |
| 0.022               | 10.5 x 9.5 x 6.0                      | 7.5  | 0.6      | 13.0 x 10.0 x 6.0  | 10   | 0.6      | 13.0 x 11.0 x 7.5  | 10   | 0.6      | 13.0 x 12.5 x 8.0  | 10   | 0.6      |
| 0.033               | 10.5 x 9.5 x 6.0                      | 7.5  | 0.6      | 13.0 x 10.0 x 6.5  | 10   | 0.6      | 13.0 x 11.5 x 7.5  | 10   | 0.6      | 18.5 x 13.0 x 8.0  | 15   | 0.8      |
| 0.047               | 10.5 x 10 x 6.0                       | 7.5  | 0.6      | 13.0 x 10.0 x 6.5  | 10   | 0.6      | 13.0 x 12.5 x 7.5  | 10   | 0.6      | 18.5 x 14.0 x 8.5  | 15   | 0.8      |
| 0.068               | 13.0 x 10.5 x 6.0                     | 10   | 0.6      | 13.0 x 10.5 x 6.5  | 10   | 0.6      | 18.5 x 12.5 x 7.5  | 15   | 0.8      | 18.5 x 15.0 x 9.5  | 15   | 0.8      |
| 0.1                 | 13.0 x 11.0 x 7.0                     | 10   | 0.6      | 13.0 x 12.0 x 7.0  | 10   | 0.6      | 18.5 x 13.5 x 8.0  | 15   | 0.8      | 23.0 x 17.0 x 10.0 | 20   | 0.8      |
| 0.15                | 18.5 x 12.0 x 7.0                     | 15   | 0.8      | 18.5 x 12.0 x 7.0  | 15   | 0.8      | 18.5 x 15.0 x 9.5  | 15   | 0.8      | 23.0 x 18.5 x 11.5 | 20   | 0.8      |
| 0.22                | 18.5 x 12.5 x 7.5                     | 15   | 0.8      | 18.5 x 12.5 x 7.5  | 15   | 0.8      | 23.0 x 15.0 x 9.5  | 20   | 0.8      | 32.0 x 19.0 x 12.0 | 27.5 | 0.8      |
| 0.33                | 18.5 x 14.5 x 8.5                     | 15   | 0.6      | 18.5 x 14.5 x 8.5  | 15   | 0.8      | 23.0 x 17.5 x 11.0 | 20   | 0.8      | 32.0 x 22.0 x 14.5 | 27.5 | 0.8      |
| 0.47                | 18.5 x 15.5 x 10.0                    | 15   | 0.8      | 18.5 x 15.5 x 10.0 | 15   | 0.8      | 32.0 x 18.5 x 11.5 | 27.5 | 0.8      | 32.0 x 24.5 x 15.0 | 27.5 | 0.8      |
| 0.68                | 23.0 x 16.5 x 10.0                    | 20   | 0.8      | 23.0 x 16.5 x 10.0 | 20   | 0.8      | 32.0 x 20.5 x 12.5 | 27.5 | 0.8      | 32.0 x 29.0 x 16.5 | 27.5 | 0.8      |
| 0.82                |                                       |      |          | 23.5 x 18.5 x 11.0 | 20   | 0.8      |                    |      |          |                    |      |          |
| 1.0                 | 23.0 x 18.5 x 11.0                    | 20   | 0.8      | 23.0 x 18.5 x 11.0 | 20   | 0.8      | 32.0 x 24.5 x 16.0 | 27.5 | 0.8      | 37.0 x 31.0 x 18.0 | 32.5 | 0.8      |
| 1.5                 | 23.0 x 19.0 x 12.0                    | 20   | 0.8      | 23.0 x 20.0 x 13.0 | 20   | 0.8      | 32.0 x 29.5 x 17.0 | 27.5 | 0.8      |                    |      |          |
| 2.2                 | 32.0 x 22.0 x 12.5                    | 27.5 | 0.8      | 32.0 x 22.0 x 13.5 | 27.5 | 0.8      | 37.0 x 31.0 x 18.0 | 32.5 | 0.8      |                    |      |          |
| 3.3                 | 32.0 x 24.0 x 13.0                    | 27.5 | 0.8      | 32.0 x 26.0 x 16.5 | 27.5 | 0.8      |                    |      |          |                    |      |          |
| 3.9                 | 32.0 x 26.0 x 16.0                    | 27.5 | 1.0      | 32.0 x 26.0 x 16.0 | 27.5 | 0.8      |                    |      |          |                    |      |          |
| 4.7                 | 32.0 x 25.0 x 14.5                    | 27.5 | 1.0      | 37.0 x 27.0 x 18.0 | 32.5 | 0.8      |                    |      |          |                    |      |          |
| 6.8                 | 37.0 x 27.0 x 16.0                    | 32.5 | 1.0      | 37.0 x 32.0 x 19.5 | 32.5 | 0.8      |                    |      |          |                    |      |          |
| 10                  | 37.0 x 32.0 x 18.5                    | 32.5 | 1.0      |                    |      |          |                    |      |          |                    |      |          |

## CHARACTERISTICS REFERENCE

