

## Metallized Polyester Film Capacitor

# BMPE

**Non-inductive construction using metallized Polyester film with flame retardant plastic case and epoxy resin filled.**

### ■ Features

- Non-inductive wound construction.
- Wide capacitance range, small size, and light weight.
- Long life due to self-healing effect.
- Plastic case(UL94 V-0), Epoxy resin sealing
- RoHS directive compliant
- AEC-Q200 Available

### ■ Applications

- Typical applications include blocking, coupling, decoupling,
- bypassing and interference suppression in low voltage
- applications such as automotive. Not for use with the mains.

### ■ Specifications

|                             |         |                                                                                                                 |                                                    |
|-----------------------------|---------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| Reference Standard          |         | IEC 60384-2                                                                                                     |                                                    |
| Climatic Category           |         | 40 / 105 / 21                                                                                                   |                                                    |
| Rated Temperature           |         | 85°C                                                                                                            |                                                    |
| Operation Temperature Range |         | -40°C~105°C<br>+85°C~+105°C decreasing factor 1.0% / °C for V <sub>R</sub> (dc)                                 |                                                    |
| Rated Voltage               | DC-Type | 100V, 250V, 400V, 630V, 1000V                                                                                   |                                                    |
| Capacitance Range           |         | 0.015μF~10.0μF                                                                                                  |                                                    |
| Capacitance Tolerance       |         | G : ±2% H : ±3% J : ±5% K : ±10% M : ±20%<br>※Standard : K : ±10%, Other Tolerance Grade : available on request |                                                    |
| Voltage Proof               | DC-Type | 1.75U <sub>R</sub> (dc) / 3sec                                                                                  |                                                    |
| Dissipation Factor          |         | ≤1.0%(at 1kHz 20°C)                                                                                             |                                                    |
| Rated Voltage               | DC-Type | U <sub>R</sub> (dc)<500V                                                                                        | ≥9,000MΩ C <sub>R</sub> ≤0.33μF 100Vdc 60sec 20°C  |
|                             |         |                                                                                                                 | ≥3,000Ω·F C <sub>R</sub> >0.33μF 100Vdc 60sec 20°C |
|                             |         | U <sub>R</sub> (dc)≥500V                                                                                        | ≥9,000MΩ C <sub>R</sub> ≤0.33μF 500Vdc 60sec 20°C  |
|                             |         |                                                                                                                 | ≥3,000Ω·F C <sub>R</sub> >0.33μF 500Vdc 60sec 20°C |

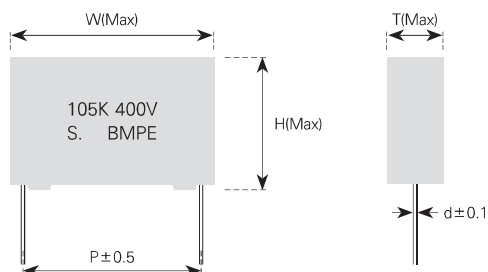
### ■ Part Number System

|        |        |        |        |        |        |        |        |
|--------|--------|--------|--------|--------|--------|--------|--------|
| BMPE   | 100V   | 125    | K      | 10     | S      | 5      |        |
| Part-1 | Part-2 | Part-3 | Part-4 | Part-5 | Part-6 | Part-7 | Part-8 |

Part-1 : Series Code(Series Name) - BMPE  
 Part-2 : Rated Voltage(DC : 100V~1000V)  
 Part-3 : Rated Capacitance Value(0.015μF~10.0μF / 153~106)  
 Part-4 : Capacitance Tolerance(G : ±2% H : ±3% J : ±5% K : ±10% M : ±20%)  
 Part-5 : Lead Spacing(10mm / 15mm / 22.5mm / 27.5mm)  
 Part-6 : Forming-Type and Packing Code  
 Part-7 : Size Number(1~4 : Min-Type / 5 : Standard-Type / 6~9 : Large-Type)  
 Part-8 : Internal Use

| CODE | STYLE               |
|------|---------------------|
| B    | Bending Forming     |
| C    | Straight Cutting    |
| D    | D-Type Forming      |
| L    | B-Type long Forming |
| M    | C-Type long Forming |
| S    | Straight            |
| X    | B-Type Forming      |
| Y    | C-Type Forming      |
| Z    | Z-Type Forming      |
| T    | A-Type Tapping      |
| U    | B-Type Tapping      |
| V    | C-Type Tapping      |

## ■ Dimensions



| 100Vdc       |                |             |             |                 |                          |
|--------------|----------------|-------------|-------------|-----------------|--------------------------|
| Cap.<br>(μF) | Dimensions(mm) |             |             | Pitch<br>-<br>d | PART NUMBER              |
|              | W<br>(max.)    | H<br>(max.) | T<br>(max.) |                 |                          |
| 1.5          | 13.0           | 15.0        | 9.0         | 10-0.6          | BMPE100V155K10S5 _____   |
| 1.8          | 13.0           | 16.0        | 10.0        | 10-0.6          | BMPE100V185K10S5 _____   |
| 1.2          | 18.0           | 12.0        | 6.0         | 15-0.8          | BMPE100V125K15S5 _____   |
| 1.5          | 18.0           | 13.0        | 7.0         | 15-0.8          | BMPE100V155K15S5 _____   |
| 1.8          | 18.0           | 13.5        | 7.5         | 15-0.8          | BMPE100V185K15S5 _____   |
| 2.2          | 18.0           | 15.0        | 8.5         | 15-0.8          | BMPE100V225K15S5 _____   |
| 2.7          | 18.0           | 15.0        | 9.0         | 15-0.8          | BMPE100V275K15S5 _____   |
| 3.3          | 18.0           | 16.5        | 10.0        | 15-0.8          | BMPE100V335K15S5 _____   |
| 3.9          | 18.0           | 18.0        | 10.0        | 15-0.8          | BMPE100V395K15S5 _____   |
| 4.7          | 18.0           | 19.0        | 11.0        | 15-0.8          | BMPE100V475K15S5 _____   |
| 5.6          | 18.0           | 21.0        | 12.0        | 15-0.8          | BMPE100V565K15S5 _____   |
| 2.2          | 26.0           | 15.0        | 6.0         | 22.5-0.8        | BMPE100V225K22.5S5 _____ |
| 2.7          | 26.0           | 16.5        | 7.0         | 22.5-0.8        | BMPE100V275K22.5S5 _____ |
| 3.3          | 26.0           | 16.5        | 7.0         | 22.5-0.8        | BMPE100V335K22.5S5 _____ |
| 3.9          | 26.0           | 17.0        | 8.5         | 22.5-0.8        | BMPE100V395K22.5S5 _____ |
| 4.7          | 26.0           | 18.0        | 9.0         | 22.5-0.8        | BMPE100V475K22.5S5 _____ |
| 5.6          | 26.0           | 19.0        | 10.0        | 22.5-0.8        | BMPE100V565K22.5S5 _____ |
| 6.8          | 26.0           | 20.0        | 11.0        | 22.5-0.8        | BMPE100V685K22.5S5 _____ |
| 8.2          | 26.0           | 22.0        | 12.5        | 22.5-0.8        | BMPE100V825K22.5S5 _____ |
| 10           | 26.0           | 24.0        | 13.5        | 22.5-0.8        | BMPE100V106K22.5S5 _____ |
| 8.2          | 31.0           | 20.0        | 11.0        | 27.5-0.8        | BMPE100V825K27.5S5 _____ |
| 10           | 31.0           | 22.0        | 13.0        | 27.5-0.8        | BMPE100V106K27.5S5 _____ |

| 250Vdc       |                |             |             |                 |                          |
|--------------|----------------|-------------|-------------|-----------------|--------------------------|
| Cap.<br>(μF) | Dimensions(mm) |             |             | Pitch<br>-<br>d | PART NUMBER              |
|              | W<br>(max.)    | H<br>(max.) | T<br>(max.) |                 |                          |
| 0.18         | 10.5           | 11.0        | 5.0         | 7.5-0.6         | BMPE250V184K7.5S5 _____  |
| 0.22         | 10.5           | 12.0        | 6.0         | 7.5-0.6         | BMPE250V224K7.5S5 _____  |
| 0.27         | 10.5           | 12.0        | 6.0         | 7.5-0.6         | BMPE250V274K7.5S5 _____  |
| 0.18         | 13.0           | 11.0        | 5.0         | 10-0.6          | BMPE250V184K10S5 _____   |
| 0.22         | 13.0           | 11.0        | 5.0         | 10-0.6          | BMPE250V224K10S5 _____   |
| 0.27         | 13.0           | 11.0        | 5.0         | 10-0.6          | BMPE250V274K10S5 _____   |
| 0.33         | 13.0           | 11.0        | 5.5         | 10-0.6          | BMPE250V334K10S5 _____   |
| 0.39         | 13.0           | 12.0        | 6.0         | 10-0.6          | BMPE250V394K10S5 _____   |
| 0.47         | 13.0           | 13.0        | 7.0         | 10-0.6          | BMPE250V474K10S5 _____   |
| 0.33         | 18.0           | 11.0        | 5.0         | 15-0.8          | BMPE250V334K15S5 _____   |
| 0.39         | 18.0           | 11.0        | 5.0         | 15-0.8          | BMPE250V394K15S5 _____   |
| 0.47         | 18.0           | 11.0        | 5.0         | 15-0.8          | BMPE250V474K15S5 _____   |
| 0.56         | 18.0           | 11.0        | 5.0         | 15-0.8          | BMPE250V564K15S5 _____   |
| 0.68         | 18.0           | 12.0        | 6.0         | 15-0.8          | BMPE250V684K15S5 _____   |
| 0.82         | 18.0           | 13.0        | 7.0         | 15-0.8          | BMPE250V824K15S5 _____   |
| 1.0          | 18.0           | 13.0        | 7.0         | 15-0.8          | BMPE250V105K15S5 _____   |
| 1.2          | 18.0           | 13.5        | 7.5         | 15-0.8          | BMPE250V125K15S5 _____   |
| 1.5          | 18.0           | 15.0        | 8.5         | 15-0.8          | BMPE250V155K15S5 _____   |
| 1.8          | 18.0           | 16.5        | 10.0        | 15-0.8          | BMPE250V185K15S5 _____   |
| 2.2          | 18.0           | 19.0        | 10.0        | 15-0.8          | BMPE250V225K15S5 _____   |
| 0.82         | 26.0           | 15.0        | 6.0         | 22.5-0.8        | BMPE250V824K22.5S5 _____ |
| 1.0          | 26.0           | 15.0        | 6.0         | 22.5-0.8        | BMPE250V105K22.5S5 _____ |
| 1.2          | 26.0           | 15.0        | 6.0         | 22.5-0.8        | BMPE250V125K22.5S5 _____ |
| 1.5          | 26.0           | 16.5        | 7.0         | 22.5-0.8        | BMPE250V155K22.5S5 _____ |
| 1.8          | 26.0           | 16.5        | 7.0         | 22.5-0.8        | BMPE250V185K22.5S5 _____ |
| 2.2          | 26.0           | 17.0        | 8.5         | 22.5-0.8        | BMPE250V225K22.5S5 _____ |
| 2.7          | 26.0           | 18.0        | 9.0         | 22.5-0.8        | BMPE250V275K22.5S5 _____ |
| 3.3          | 26.0           | 19.0        | 10.0        | 22.5-0.8        | BMPE250V335K22.5S5 _____ |
| 3.9          | 26.0           | 20.0        | 11.0        | 22.5-0.8        | BMPE250V395K22.5S5 _____ |
| 4.7          | 26.0           | 22.0        | 12.5        | 22.5-0.8        | BMPE250V475K22.5S5 _____ |
| 5.6          | 26.0           | 22.0        | 12.5        | 22.5-0.8        | BMPE250V565K22.5S5 _____ |
| 6.8          | 26.0           | 24.0        | 13.5        | 22.5-0.8        | BMPE250V685K22.5S5 _____ |
| 2.2          | 31.0           | 18.0        | 9.0         | 27.5-0.8        | BMPE250V225K27.5S5 _____ |
| 2.7          | 31.0           | 18.0        | 9.0         | 27.5-0.8        | BMPE250V275K27.5S5 _____ |
| 3.3          | 31.0           | 18.0        | 9.0         | 27.5-0.8        | BMPE250V335K27.5S5 _____ |
| 3.9          | 31.0           | 19.0        | 10.0        | 27.5-0.8        | BMPE250V395K27.5S5 _____ |

# Metallized Polyester Film Capacitor

|      |      |      |      |          |                        |
|------|------|------|------|----------|------------------------|
| 8.2  | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 250V 825K 27.5S 5 |
| 10.0 | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 250V 106K 27.5S 5 |
|      |      |      |      |          |                        |
|      |      |      |      |          |                        |
|      |      |      |      |          |                        |
|      |      |      |      |          |                        |

| 400Vdc       |                |             |             |            |                        |
|--------------|----------------|-------------|-------------|------------|------------------------|
| Cap.<br>(μF) | Dimensions(mm) |             |             | Pitch<br>d | PART NUMBER            |
|              | W<br>(max.)    | H<br>(max.) | T<br>(max.) |            |                        |
| 0.1          | 13.0           | 11.0        | 5.0         | 10-0.6     | BMPE 400V 104K 10S 5   |
| 0.12         | 13.0           | 11.0        | 5.0         | 10-0.6     | BMPE 400V 124K 10S 5   |
| 0.15         | 13.0           | 11.0        | 5.0         | 10-0.6     | BMPE 400V 154K 10S 5   |
| 0.18         | 13.0           | 12.0        | 6.0         | 10-0.6     | BMPE 400V 184K 10S 5   |
| 0.22         | 13.0           | 12.0        | 6.0         | 10-0.6     | BMPE 400V 224K 10S 5   |
| 0.18         | 18.0           | 11.0        | 5.0         | 15-0.8     | BMPE 400V 184K 15S 5   |
| 0.22         | 18.0           | 11.0        | 5.0         | 15-0.8     | BMPE 400V 224K 15S 5   |
| 0.27         | 18.0           | 12.5        | 6.0         | 15-0.8     | BMPE 400V 274K 15S 5   |
| 0.33         | 18.0           | 12.0        | 6.0         | 15-0.8     | BMPE 400V 334K 15S 5   |
| 0.39         | 18.0           | 13.5        | 7.5         | 15-0.8     | BMPE 400V 394K 15S 5   |
| 0.47         | 18.0           | 13.5        | 7.5         | 15-0.8     | BMPE 400V 474K 15S 5   |
| 0.56         | 18.0           | 13.5        | 7.5         | 15-0.8     | BMPE 400V 564K 15S 5   |
| 0.68         | 18.0           | 14.5        | 8.5         | 15-0.8     | BMPE 400V 684K 15S 5   |
| 0.82         | 18.0           | 16.0        | 10.0        | 15-0.8     | BMPE 400V 824K 15S 5   |
| 1.0          | 18.0           | 19.0        | 11.0        | 15-0.8     | BMPE 400V 105K 15S 5   |
| 1.2          | 18.0           | 19.0        | 11.0        | 15-0.8     | BMPE 400V 125K 15S 5   |
| 1.5          | 18.0           | 19.0        | 11.0        | 15-0.8     | BMPE 400V 155K 15S 5   |
| 0.27         | 26.0           | 14.5        | 6.0         | 22.5-0.8   | BMPE 400V 274K 22.5S 5 |
| 0.33         | 26.0           | 14.5        | 6.0         | 22.5-0.8   | BMPE 400V 334K 22.5S 5 |
| 0.39         | 26.0           | 14.5        | 6.0         | 22.5-0.8   | BMPE 400V 394K 22.5S 5 |
| 0.47         | 26.0           | 14.5        | 6.0         | 22.5-0.8   | BMPE 400V 474K 22.5S 5 |
| 0.56         | 26.0           | 14.5        | 6.0         | 22.5-0.8   | BMPE 400V 564K 22.5S 5 |
| 0.68         | 26.0           | 14.5        | 6.0         | 22.5-0.8   | BMPE 400V 684K 22.5S 5 |
| 0.82         | 26.0           | 16.0        | 7.0         | 22.5-0.8   | BMPE 400V 824K 22.5S 5 |
| 1.0          | 26.0           | 16.0        | 7.0         | 22.5-0.8   | BMPE 400V 105K 22.5S 5 |
| 1.2          | 26.0           | 17.0        | 8.5         | 22.5-0.8   | BMPE 400V 125K 22.5S 5 |
| 1.5          | 26.0           | 18.5        | 9.0         | 22.5-0.8   | BMPE 400V 155K 22.5S 5 |
| 1.8          | 26.0           | 18.5        | 10.0        | 22.5-0.8   | BMPE 400V 185K 22.5S 5 |

|      |      |      |      |          |                        |
|------|------|------|------|----------|------------------------|
| 2.2  | 26.0 | 20.0 | 11.0 | 22.5-0.8 | BMPE 400V 225K 22.5S 5 |
| 2.7  | 26.0 | 22.0 | 13.0 | 22.5-0.8 | BMPE 400V 275K 22.5S 5 |
| 3.3  | 26.0 | 22.0 | 13.0 | 22.5-0.8 | BMPE 400V 335K 22.5S 5 |
| 3.9  | 26.0 | 24.5 | 15.5 | 22.5-0.8 | BMPE 400V 395K 22.5S 5 |
| 4.7  | 26.0 | 24.5 | 15.5 | 22.5-0.8 | BMPE 400V 475K 22.5S 5 |
| 0.82 | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 400V 824K 27.5S 5 |
| 1.0  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 400V 105K 27.5S 5 |
| 1.2  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 400V 125K 27.5S 5 |
| 1.5  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 400V 155K 27.5S 5 |
| 1.8  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 400V 185K 27.5S 5 |
| 2.2  | 31.0 | 20.0 | 11.0 | 27.5-0.8 | BMPE 400V 225K 27.5S 5 |
| 2.7  | 31.0 | 20.0 | 11.0 | 27.5-0.8 | BMPE 400V 275K 27.5S 5 |
| 3.3  | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 400V 335K 27.5S 5 |
| 3.9  | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 400V 395K 27.5S 5 |
| 4.7  | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 400V 475K 27.5S 5 |
| 5.6  | 31.5 | 28.0 | 14.0 | 27.5-0.8 | BMPE 400V 565K 27.5S 5 |
| 6.8  | 31.5 | 28.0 | 17.5 | 27.5-0.8 | BMPE 400V 685K 27.5S 5 |
| 8.2  | 31.5 | 28.0 | 17.5 | 27.5-0.8 | BMPE 400V 825K 27.5S 5 |
| 10.0 | 31.5 | 29.0 | 19.0 | 27.5-0.8 | BMPE 400V 106K 27.5S 5 |
| 2.2  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 400V 225K 37.5S 5 |
| 2.7  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 400V 275K 37.5S 5 |
| 3.3  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 400V 335K 37.5S 5 |
| 3.9  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 400V 395K 37.5S 5 |
| 4.7  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 400V 475K 37.5S 5 |
| 5.6  | 41.0 | 24.0 | 13.0 | 37.5-1   | BMPE 400V 565K 37.5S 5 |
| 6.8  | 41.0 | 24.0 | 13.0 | 37.5-1   | BMPE 400V 685K 37.5S 5 |
| 8.2  | 41.0 | 26.0 | 15.0 | 37.5-1   | BMPE 400V 825K 37.5S 5 |
| 10.0 | 41.0 | 28.5 | 16.0 | 37.5-1   | BMPE 400V 106K 37.5S 5 |

| 630Vdc       |                |             |             |            |                      |
|--------------|----------------|-------------|-------------|------------|----------------------|
| Cap.<br>(μF) | Dimensions(mm) |             |             | Pitch<br>d | PART NUMBER          |
|              | W<br>(max.)    | H<br>(max.) | T<br>(max.) |            |                      |
| 0.033        | 13.0           | 11.0        | 5.0         | 10-0.6     | BMPE 630V 333K 10S 5 |
| 0.039        | 13.0           | 11.0        | 5.0         | 10-0.6     | BMPE 630V 393K 10S 5 |
| 0.047        | 13.0           | 11.0        | 5.0         | 10-0.6     | BMPE 630V 473K 10S 5 |
| 0.056        | 13.0           | 12.0        | 6.0         | 10-0.6     | BMPE 630V 563K 10S 5 |
| 0.068        | 13.0           | 12.0        | 6.0         | 10-0.6     | BMPE 630V 683K 10S 5 |
| 0.082        | 13.0           | 12.0        | 6.0         | 10-0.6     | BMPE 630V 823K 10S 5 |

|       |      |      |      |          |                        |
|-------|------|------|------|----------|------------------------|
| 0.056 | 18.0 | 11.0 | 5.0  | 15-0.8   | BMPE 630V 563K 15S 5   |
| 0.068 | 18.0 | 11.0 | 5.0  | 15-0.8   | BMPE 630V 683K 15S 5   |
| 0.082 | 18.0 | 11.0 | 5.0  | 15-0.8   | BMPE 630V 823K 15S 5   |
| 0.1   | 18.0 | 12.5 | 5.5  | 15-0.8   | BMPE 630V 104K 15S 5   |
| 0.12  | 18.0 | 12.0 | 6.0  | 15-0.8   | BMPE 630V 124K 15S 5   |
| 0.15  | 18.0 | 13.5 | 7.5  | 15-0.8   | BMPE 630V 154K 15S 5   |
| 0.18  | 18.0 | 13.5 | 7.5  | 15-0.8   | BMPE 630V 184K 15S 5   |
| 0.22  | 18.0 | 14.5 | 8.5  | 15-0.8   | BMPE 630V 224K 15S 5   |
| 0.27  | 18.0 | 16.0 | 10.0 | 15-0.8   | BMPE 630V 274K 15S 5   |
| 0.33  | 18.0 | 16.0 | 10.0 | 15-0.8   | BMPE 630V 334K 15S 5   |
| 0.39  | 18.0 | 19.0 | 11.0 | 15-0.8   | BMPE 630V 394K 15S 5   |
| 0.47  | 18.0 | 19.0 | 11.0 | 15-0.8   | BMPE 630V 474K 15S 5   |
| 0.12  | 26.0 | 14.5 | 6.0  | 22.5-0.8 | BMPE 630V 124K 22.5S 5 |
| 0.15  | 26.0 | 14.5 | 6.0  | 22.5-0.8 | BMPE 630V 154K 22.5S 5 |
| 0.18  | 26.0 | 14.5 | 6.0  | 22.5-0.8 | BMPE 630V 184K 22.5S 5 |
| 0.22  | 26.0 | 14.5 | 6.0  | 22.5-0.8 | BMPE 630V 224K 22.5S 5 |
| 0.27  | 26.0 | 16.0 | 7.0  | 22.5-0.8 | BMPE 630V 274K 22.5S 5 |
| 0.33  | 26.0 | 16.0 | 7.0  | 22.5-0.8 | BMPE 630V 334K 22.5S 5 |
| 0.39  | 26.0 | 16.0 | 8.0  | 22.5-0.8 | BMPE 630V 394K 22.5S 5 |
| 0.47  | 26.0 | 17.0 | 8.5  | 22.5-0.8 | BMPE 630V 474K 22.5S 5 |
| 0.56  | 26.0 | 18.5 | 9.0  | 22.5-0.8 | BMPE 630V 564K 22.5S 5 |
| 0.68  | 26.0 | 19.0 | 10.0 | 22.5-0.8 | BMPE 630V 684K 22.5S 5 |
| 0.82  | 26.0 | 20.0 | 11.0 | 22.5-0.8 | BMPE 630V 824K 22.5S 5 |
| 1.0   | 26.0 | 22.0 | 13.0 | 22.5-0.8 | BMPE 630V 105K 22.5S 5 |
| 1.2   | 26.0 | 24.5 | 15.5 | 22.5-0.8 | BMPE 630V 125K 22.5S 5 |
| 1.5   | 26.0 | 24.5 | 15.5 | 22.5-0.8 | BMPE 630V 155K 22.5S 5 |
| 0.33  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 630V 334K 27.5S 5 |
| 0.39  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 630V 394K 27.5S 5 |
| 0.47  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 630V 474K 27.5S 5 |
| 0.56  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 630V 564K 27.5S 5 |
| 0.68  | 31.5 | 17.0 | 9.0  | 27.5-0.8 | BMPE 630V 684K 27.5S 5 |
| 0.82  | 31.0 | 20.0 | 11.0 | 27.5-0.8 | BMPE 630V 824K 27.5S 5 |
| 1.0   | 31.0 | 20.0 | 11.0 | 27.5-0.8 | BMPE 630V 105K 27.5S 5 |
| 1.2   | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 630V 125K 27.5S 5 |
| 1.5   | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 630V 155K 27.5S 5 |
| 1.8   | 31.5 | 25.0 | 13.0 | 27.5-0.8 | BMPE 630V 185K 27.5S 5 |
| 2.2   | 31.5 | 28.0 | 14.0 | 27.5-0.8 | BMPE 630V 225K 27.5S 5 |
| 2.7   | 31.5 | 28.0 | 17.5 | 27.5-0.8 | BMPE 630V 275K 27.5S 5 |
| 3.3   | 31.5 | 29.0 | 19.0 | 27.5-0.8 | BMPE 630V 335K 27.5S 5 |
| 3.9   | 31.5 | 37.0 | 22.0 | 27.5-0.8 | BMPE 630V 395K 27.5S 5 |

|      |      |      |      |          |                        |
|------|------|------|------|----------|------------------------|
| 4.7  | 31.5 | 37.0 | 22.0 | 27.5-0.8 | BMPE 630V 475K 27.5S 5 |
| 0.82 | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 630V 824K 37.5S 5 |
| 1.0  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 630V 105K 37.5S 5 |
| 1.2  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 630V 125K 37.5S 5 |
| 1.5  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 630V 155K 37.5S 5 |
| 1.8  | 41.0 | 22.0 | 11.0 | 37.5-1   | BMPE 630V 185K 37.5S 5 |
| 2.2  | 41.0 | 24.0 | 13.0 | 37.5-1   | BMPE 630V 225K 37.5S 5 |
| 2.7  | 41.0 | 26.0 | 15.0 | 37.5-1   | BMPE 630V 275K 37.5S 5 |
| 3.3  | 41.0 | 28.5 | 16.0 | 37.5-1   | BMPE 630V 335K 37.5S 5 |
| 3.9  | 41.0 | 32.0 | 19.0 | 37.5-1   | BMPE 630V 395K 37.5S 5 |
| 4.7  | 41.0 | 32.0 | 19.0 | 37.5-1   | BMPE 630V 475K 37.5S 5 |
| 5.6  | 41.0 | 38.0 | 21.0 | 37.5-1   | BMPE 630V 565K 37.5S 5 |
| 6.8  | 41.0 | 38.0 | 21.0 | 37.5-1   | BMPE 630V 685K 37.5S 5 |
| 8.2  | 41.0 | 44.0 | 24.0 | 37.5-1   | BMPE 630V 825K 37.5S 5 |
| 10.0 | 41.0 | 44.0 | 24.0 | 37.5-1   | BMPE 630V 106K 37.5S 5 |

| 1000Vdc      |                |           |           |                 |                         |
|--------------|----------------|-----------|-----------|-----------------|-------------------------|
| Cap.<br>(μF) | Dimensions(mm) |           |           | Pitch<br>+<br>d | PART NUMBER             |
|              | W<br>±1.5      | H<br>±1.0 | T<br>±1.0 |                 |                         |
| 0.015        | 13.0           | 11.0      | 5.0       | 10-0.6          | BMPE 1000V 153K 10S 5   |
| 0.018        | 13.0           | 11.0      | 5.0       | 10-0.6          | BMPE 1000V 183K 10S 5   |
| 0.022        | 13.0           | 12.0      | 6.0       | 10-0.6          | BMPE 1000V 223K 10S 5   |
| 0.027        | 13.0           | 12.0      | 6.0       | 10-0.6          | BMPE 1000V 273K 10S 5   |
| 0.033        | 13.0           | 12.0      | 6.0       | 10-0.6          | BMPE 1000V 333K 10S 5   |
| 0.022        | 18.0           | 11.0      | 5.0       | 15-0.8          | BMPE 1000V 223K 15S 5   |
| 0.027        | 18.0           | 11.0      | 5.0       | 15-0.8          | BMPE 1000V 273K 15S 5   |
| 0.033        | 18.0           | 11.0      | 5.0       | 15-0.8          | BMPE 1000V 333K 15S 5   |
| 0.039        | 18.0           | 12.5      | 6.0       | 15-0.8          | BMPE 1000V 393K 15S 5   |
| 0.047        | 18.0           | 12.0      | 6.0       | 15-0.8          | BMPE 1000V 473K 15S 5   |
| 0.056        | 18.0           | 13.5      | 7.5       | 15-0.8          | BMPE 1000V 563K 15S 5   |
| 0.068        | 18.0           | 13.5      | 7.5       | 15-0.8          | BMPE 1000V 683K 15S 5   |
| 0.082        | 18.0           | 14.5      | 8.5       | 15-0.8          | BMPE 1000V 823K 15S 5   |
| 0.1          | 18.0           | 14.5      | 8.5       | 15-0.8          | BMPE 1000V 104K 15S 5   |
| 0.12         | 18.0           | 16.0      | 10.0      | 15-0.8          | BMPE 1000V 124K 15S 5   |
| 0.15         | 18.0           | 19.0      | 11.0      | 15-0.8          | BMPE 1000V 154K 15S 5   |
| 0.18         | 18.0           | 19.0      | 11.0      | 15-0.8          | BMPE 1000V 184K 15S 5   |
| 0.033        | 26.0           | 14.5      | 6.0       | 22.5-0.8        | BMPE 1000V 333K 22.5S 5 |
| 0.039        | 26.0           | 14.5      | 6.0       | 22.5-0.8        | BMPE 1000V 393K 22.5S 5 |

# Metallized Polyester Film Capacitor

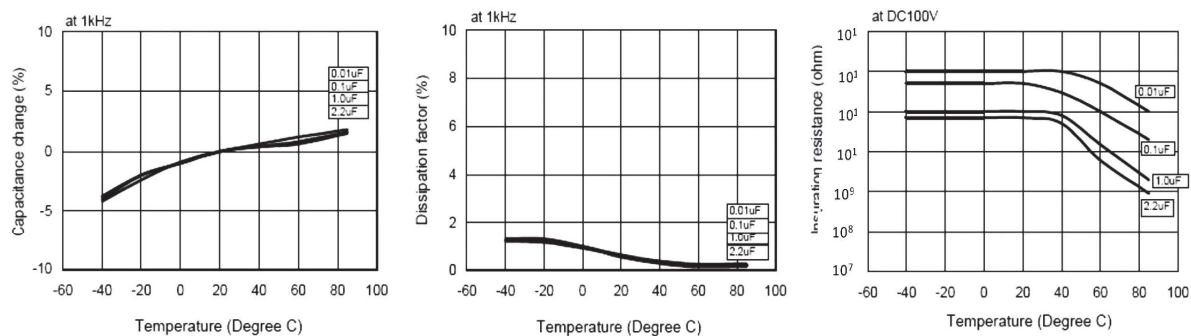
|       |      |      |      |          |                          |
|-------|------|------|------|----------|--------------------------|
| 0.047 | 26.0 | 15.0 | 6.0  | 22.5-0.8 | BMPE1000V473K22.5S5 ____ |
| 0.056 | 26.0 | 15.0 | 6.0  | 22.5-0.8 | BMPE1000V563K22.5S5 ____ |
| 0.068 | 26.0 | 15.0 | 6.0  | 22.5-0.8 | BMPE1000V683K22.5S5 ____ |
| 0.082 | 26.0 | 15.0 | 6.0  | 22.5-0.8 | BMPE1000V823K22.5S5 ____ |
| 0.1   | 26.0 | 15.0 | 6.0  | 22.5-0.8 | BMPE1000V104K22.5S5 ____ |
| 0.12  | 26.0 | 16.5 | 7.0  | 22.5-0.8 | BMPE1000V124K22.5S5 ____ |
| 0.15  | 26.0 | 16.5 | 7.0  | 22.5-0.8 | BMPE1000V154K22.5S5 ____ |
| 0.18  | 26.0 | 17.0 | 8.5  | 22.5-0.8 | BMPE1000V184K22.5S5 ____ |
| 0.22  | 26.0 | 18.0 | 9.0  | 22.5-0.8 | BMPE1000V224K22.5S5 ____ |
| 0.27  | 26.0 | 19.0 | 10.0 | 22.5-0.8 | BMPE1000V274K22.5S5 ____ |
| 0.33  | 26.0 | 20.0 | 11.0 | 22.5-0.8 | BMPE1000V334K22.5S5 ____ |
| 0.39  | 26.0 | 22.0 | 12.5 | 22.5-0.8 | BMPE1000V394K22.5S5 ____ |
| 0.47  | 26.0 | 24.0 | 13.5 | 22.5-0.8 | BMPE1000V474K22.5S5 ____ |
| 0.56  | 26.0 | 25.0 | 15.0 | 22.5-0.8 | BMPE1000V564K22.5S5 ____ |
| 0.68  | 26.0 | 25.0 | 15.0 | 22.5-0.8 | BMPE1000V684K22.5S5 ____ |
| 0.15  | 31.0 | 18.0 | 9.0  | 27.5-0.8 | BMPE1000V154K27.5S5 ____ |
| 0.18  | 31.0 | 18.0 | 9.0  | 27.5-0.8 | BMPE1000V184K27.5S5 ____ |
| 0.22  | 31.0 | 18.0 | 9.0  | 27.5-0.8 | BMPE1000V224K27.5S5 ____ |
| 0.27  | 31.0 | 18.0 | 9.0  | 27.5-0.8 | BMPE1000V274K27.5S5 ____ |
| 0.33  | 31.0 | 19.0 | 10.0 | 27.5-0.8 | BMPE1000V334K27.5S5 ____ |
| 0.39  | 31.0 | 19.0 | 10.0 | 27.5-0.8 | BMPE1000V394K27.5S5 ____ |
| 0.47  | 31.0 | 20.0 | 11.0 | 27.5-0.8 | BMPE1000V474K27.5S5 ____ |
| 0.56  | 31.0 | 22.0 | 13.0 | 27.5-0.8 | BMPE1000V564K27.5S5 ____ |
| 0.68  | 31.0 | 23.5 | 14.0 | 27.5-0.8 | BMPE1000V684K27.5S5 ____ |
| 0.82  | 31.0 | 24.5 | 15.0 | 27.5-0.8 | BMPE1000V824K27.5S5 ____ |
| 1     | 31.0 | 26.0 | 18.0 | 27.5-0.8 | BMPE1000V105K27.5S5 ____ |
| 1.2   | 31.0 | 28.0 | 19.0 | 27.5-0.8 | BMPE1000V125K27.5S5 ____ |
| 1.5   | 31.0 | 31.0 | 21.0 | 27.5-0.8 | BMPE1000V155K27.5S5 ____ |
| 1.8   | 31.0 | 37.0 | 22.0 | 27.5-0.8 | BMPE1000V185K27.5S5 ____ |
| 2.2   | 31.0 | 37.0 | 22.0 | 27.5-0.8 | BMPE1000V225K27.5S5 ____ |
| 0.47  | 42.0 | 24.0 | 12.0 | 37.5-1   | BMPE1000V474K37.5S5 ____ |
| 0.56  | 42.0 | 24.0 | 12.0 | 37.5-1   | BMPE1000V564K37.5S5 ____ |
| 0.68  | 42.0 | 24.0 | 12.0 | 37.5-1   | BMPE1000V684K37.5S5 ____ |
| 0.82  | 42.0 | 24.0 | 12.0 | 37.5-1   | BMPE1000V824K37.5S5 ____ |
| 1     | 42.0 | 24.0 | 15.0 | 37.5-1   | BMPE1000V105K37.5S5 ____ |
| 1.2   | 42.0 | 24.0 | 15.0 | 37.5-1   | BMPE1000V125K37.5S5 ____ |
| 1.5   | 42.0 | 29.0 | 15.5 | 37.5-1   | BMPE1000V155K37.5S5 ____ |
| 1.8   | 42.0 | 30.0 | 17.0 | 37.5-1   | BMPE1000V185K37.5S5 ____ |
| 2.2   | 42.0 | 34.0 | 20.5 | 37.5-1   | BMPE1000V225K37.5S5 ____ |
| 2.7   | 42.0 | 35.0 | 22.5 | 37.5-1   | BMPE1000V275K37.5S5 ____ |

|     |      |      |      |        |                          |
|-----|------|------|------|--------|--------------------------|
| 3.3 | 42.0 | 41.0 | 27.0 | 37.5-1 | BMPE1000V335K37.5S5 ____ |
| 3.9 | 42.0 | 41.0 | 27.0 | 37.5-1 | BMPE1000V395K37.5S5 ____ |
| 4.7 | 42.0 | 43.0 | 31.0 | 37.5-1 | BMPE1000V475K37.5S5 ____ |

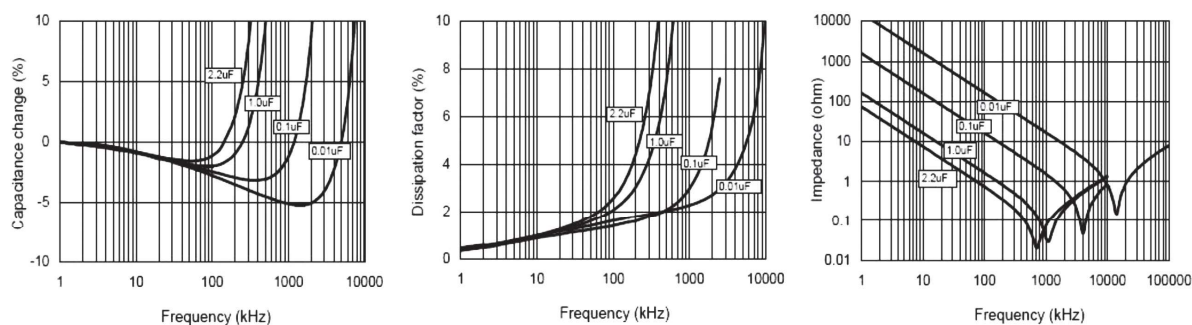
## ■ Electrical Characteristics (Typical Data)

## 100Vdc Series

Temperature Characteristics

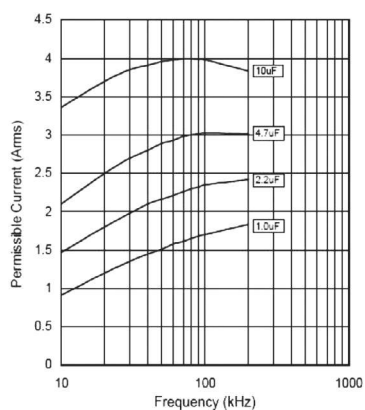


Frequency Characteristics

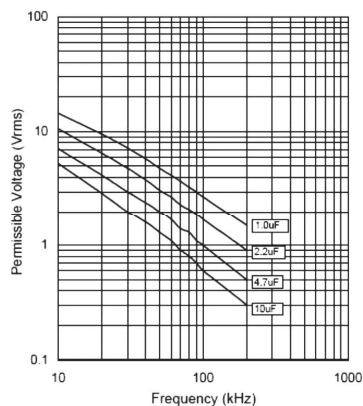


## ■ Applicable Specifications

Permissible Current



Permissible Voltage  
(at sine wave)



Pulse Handling Capability(dv/dt)  
(Max 1000cycles)

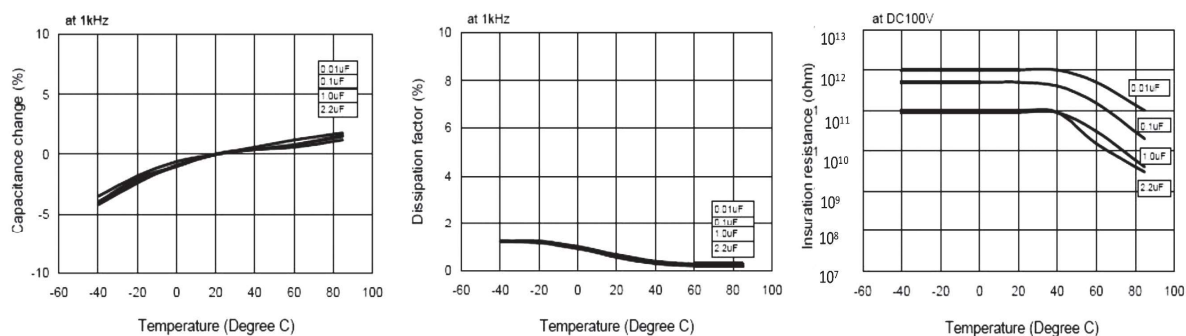
| Rating Voltage | Capacitance Value( $\mu$ F) | Code | dV/dt(V/ $\mu$ s) | Current(o-p) (A) |
|----------------|-----------------------------|------|-------------------|------------------|
| 100VDC         | 0.56                        | 564  | 22                | 12.32            |
|                | 0.68                        | 684  |                   | 15.0             |
|                | 0.82                        | 824  |                   | 18.0             |
|                | 1.00                        | 105  |                   | 22.0             |
|                | 1.20                        | 125  |                   | 13.2             |
|                | 1.50                        | 155  |                   | 17.1             |
|                | 1.80                        | 185  | 11                | 19.8             |
|                | 2.20                        | 225  |                   | 24.2             |
|                | 2.70                        | 275  |                   | 29.7             |
|                | 3.30                        | 335  |                   | 36.3             |
|                | 3.90                        | 395  |                   | 23.4             |
|                | 4.70                        | 475  |                   | 28.2             |
|                | 5.60                        | 565  | 6                 | 33.6             |
|                | 6.80                        | 685  |                   | 40.8             |
|                | 8.20                        | 825  |                   | 49.2             |
|                | 10.00                       | 106  |                   | 60.0             |

# Metallized Polyester Film Capacitor

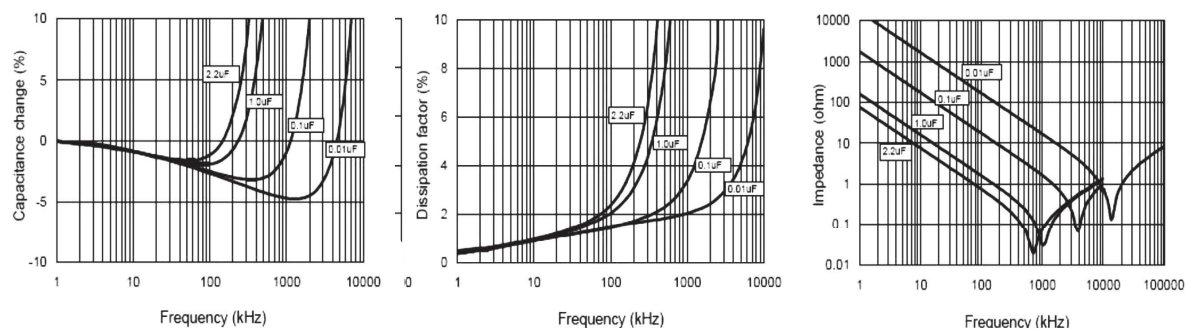
## Electrical Characteristics (Typical Data)

## 250Vdc Series

Temperature Characteristics

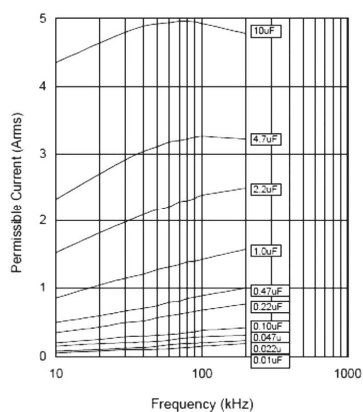


Frequency Characteristics

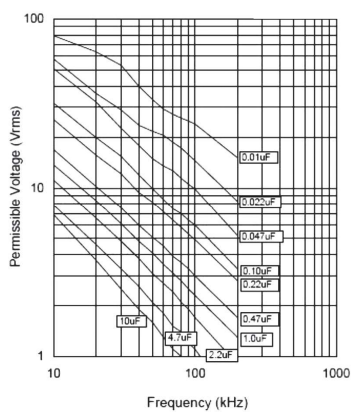


## Applicable Specifications

Permissible Current



Permissible Voltage  
(at sine wave)



Pulse Handling Capability(dv/dt)  
(Max 1000cycles)

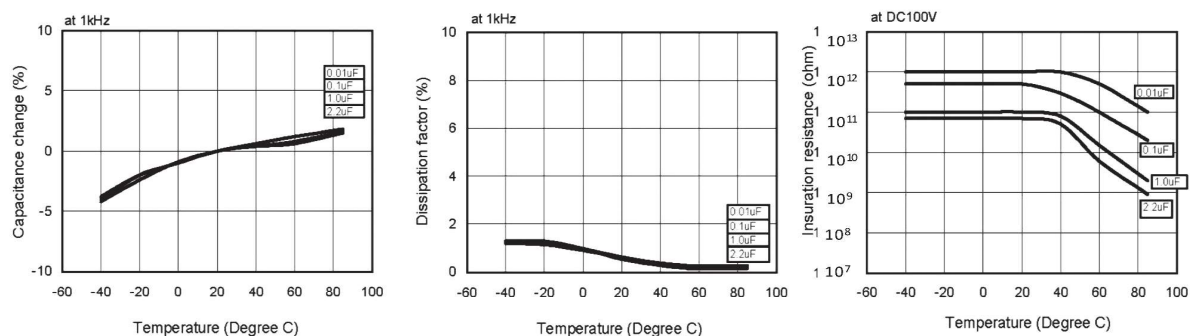
| Rating Voltage | Capacitance Value(μF) | Code | dV/dt(V/μs) | Current(o-p) (A) |
|----------------|-----------------------|------|-------------|------------------|
| 250VDC         | 0.010                 | 103  | 48          | 0.48             |
|                | 0.015                 | 153  |             | 0.72             |
|                | 0.022                 | 223  |             | 1.06             |
|                | 0.033                 | 333  |             | 1.58             |
|                | 0.047                 | 473  |             | 2.26             |
|                | 0.068                 | 683  | 33          | 3.26             |
|                | 0.100                 | 104  |             | 4.80             |
|                | 0.150                 | 154  |             | 7.20             |
|                | 0.220                 | 224  |             | 10.89            |
|                | 0.330                 | 334  |             | 16.08            |
|                | 0.470                 | 474  | 18          | 22.00            |
|                | 0.680                 | 684  |             | 33.00            |
|                | 1.000                 | 105  |             | 47.00            |
|                | 1.500                 | 155  |             | 72.00            |
|                | 2.200                 | 225  |             | 108.00           |
|                | 3.300                 | 335  | 10          | 160.00           |
|                | 4.700                 | 475  |             | 220.00           |
|                | 6.800                 | 685  |             | 330.00           |
|                | 10.000                | 106  |             | 470.00           |
|                |                       |      | 8           | 680.00           |
|                |                       |      |             | 1000.00          |



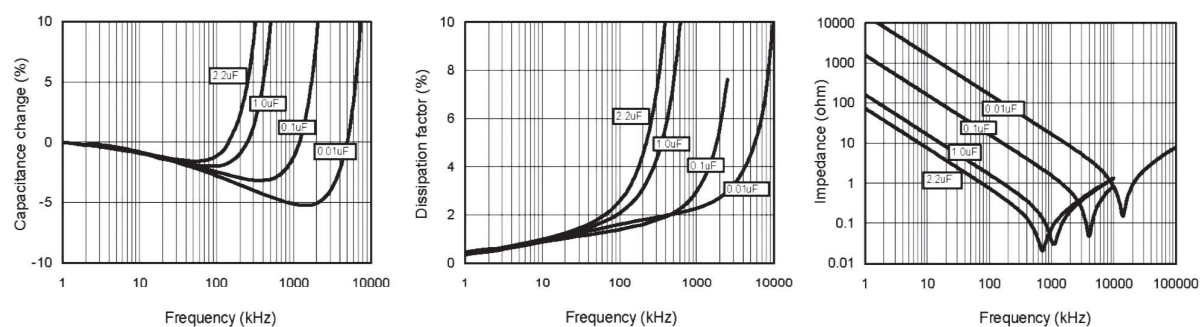
## ■ Electrical Characteristics (Typical Data)

## 400Vdc Series

### Temperature Characteristics

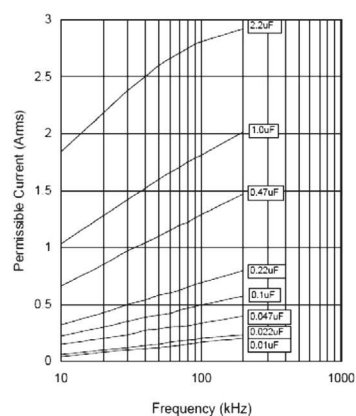


### Frequency Characteristics

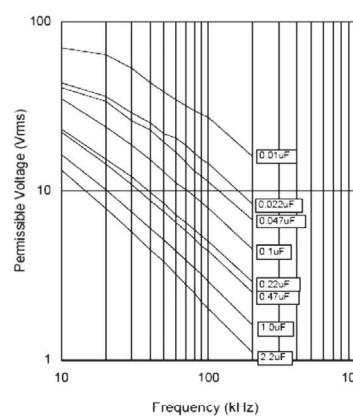


## ■ Applicable Specifications

### Permissible Current



### Permissible Voltage (at sine wave)



### Pulse Handling Capability(dv/dt) (Max 1000cycles)

| Rating Voltage | Capacitance Value(uF) | Code | dV/dt(V/us) | Current(o-p)(A) |
|----------------|-----------------------|------|-------------|-----------------|
| 400VDC         | 0.010                 | 103  | 131         | 1.31            |
|                | 0.015                 | 153  |             | 1.97            |
|                | 0.022                 | 223  |             | 2.88            |
|                | 0.033                 | 333  | 78          | 4.32            |
|                | 0.047                 | 473  |             | 3.67            |
|                | 0.068                 | 683  |             | 5.30            |
|                | 0.100                 | 104  | 37          | 7.80            |
|                | 0.150                 | 154  |             | 5.55            |
|                | 0.220                 | 224  |             | 8.14            |
|                | 0.330                 | 334  | 22          | 12.21           |
|                | 0.470                 | 474  |             | 17.39           |
|                | 0.680                 | 684  |             | 14.96           |
|                | 1.000                 | 105  | 18          | 22.00           |
|                | 1.200                 | 155  |             | 27.00           |
|                | 2.200                 | 225  |             | 39.60           |

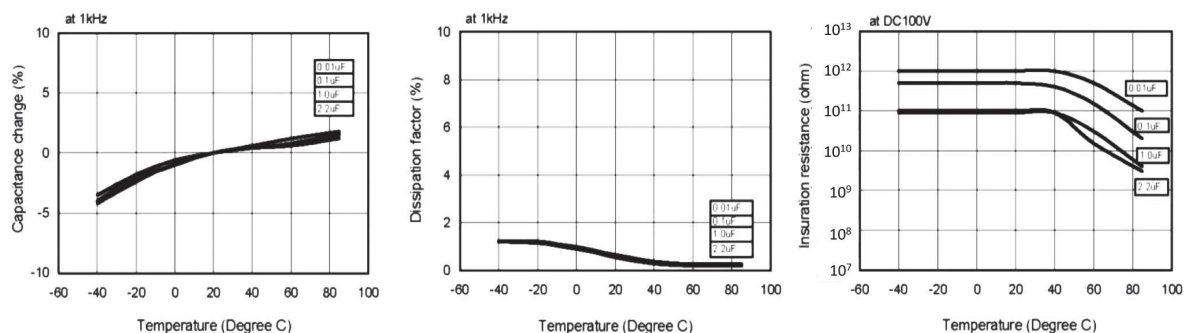


# Metallized Polyester Film Capacitor

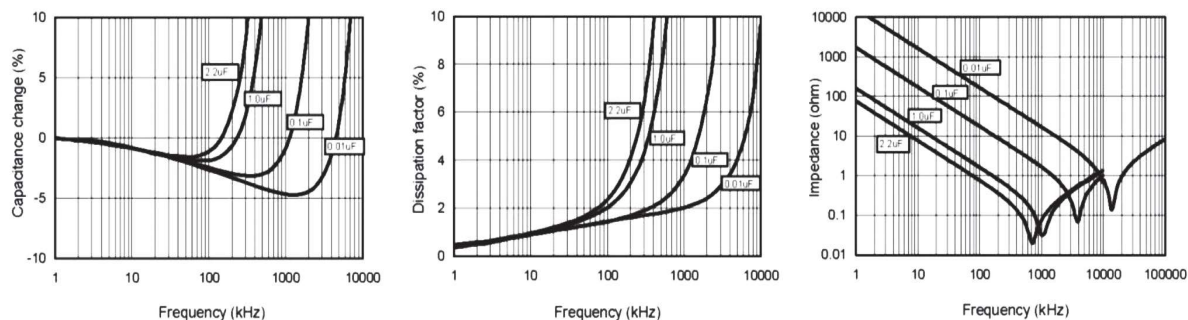
## Electrical Characteristics (Typical Data)

## 630Vdc Series

Temperature Characteristics

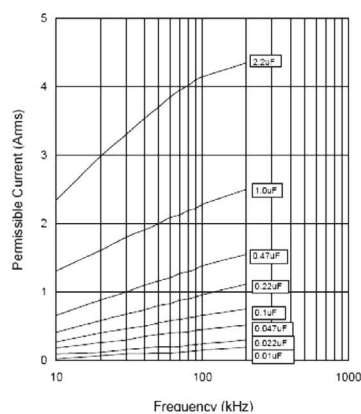


Frequency Characteristics

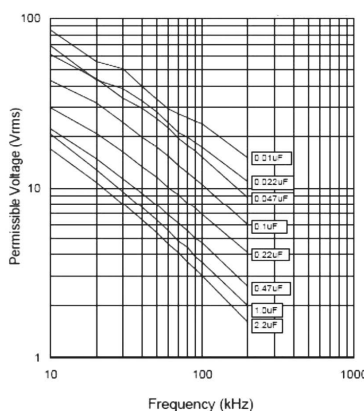


## Applicable Specifications

Permissible Current



Permissible Voltage  
(at sine wave)



Pulse Handling Capability(dv/dt)  
(Max 1000cycles)

| Rating Voltage | Capacitance Value(uF) | Code | dV/dt(V/us) | Current(o-p) (A) |
|----------------|-----------------------|------|-------------|------------------|
| 630VDC         | 0.010                 | 103  | 273         | 2.73             |
|                | 0.015                 | 153  |             | 4.10             |
|                | 0.022                 | 223  |             | 6.01             |
|                | 0.033                 | 333  |             | 9.01             |
|                | 0.047                 | 473  | 116         | 12.83            |
|                | 0.068                 | 683  |             | 7.89             |
|                | 0.100                 | 104  |             | 11.60            |
|                | 0.150                 | 154  |             | 17.40            |
|                | 0.220                 | 224  |             | 25.52            |
|                | 0.330                 | 334  | 63          | 20.79            |
|                | 0.470                 | 474  |             | 29.61            |
|                | 0.680                 | 684  |             | 42.84            |
|                | 1.000                 | 105  |             | 48.00            |
|                | 1.500                 | 155  | 48          | 72.00            |
|                | 2.200                 | 225  |             | 105.60           |