

# Metallized Polypropylene Film Capacitor(Aluminium Can) DC-Link Application

## DPM

订购基本规格

### EXPLANATION OF ARTICLE CODE

|         |       |   |     |   |     |   |   |
|---------|-------|---|-----|---|-----|---|---|
| D P M - | 1 6 7 | K | 3 M | C | 4 5 | F | 5 |
| ①       | ②     | ③ | ④   | ⑤ | ⑥   | ⑦ | ⑧ |

#### ① Capacitor Type

|      |      |
|------|------|
| TYPE | DPM  |
| CODE | DPM- |

#### ② Rated Capacitance (EIA Code)

The rated Capacitance value of the product is indicated with three digits. The first two digits indicate the two most significant digits of the capacitance value, and the third digit gives the number of following zeroes. This gives the capacitance value expressed in picofarads.

Examples:

|     |   |              |   |          |   |      |
|-----|---|--------------|---|----------|---|------|
| 105 | = | 1,000,000pF  | = | 1,000nF  | = | 1uF  |
| 106 | = | 10,000,000pF | = | 10,000nF | = | 10uF |

#### ③ Capacitance Tolerance

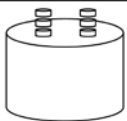
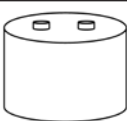
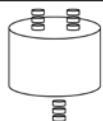
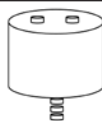
|           |     |      |      |
|-----------|-----|------|------|
| TOLERANCE | ±5% | ±10% | ±20% |
| CODE      | J   | K    | M    |

#### ④ Rated Voltage

Code for DC Voltage: (expressed in one digit & one letter code)

|         |      |      |      |      |      |      |       |       |       |
|---------|------|------|------|------|------|------|-------|-------|-------|
| VOLTAGE | 600V | 630V | 700V | 800V | 850V | 900V | 1000V | 1100V | 1200V |
| CODE    | 2R   | 2J   | 2S   | 2K   | 2T   | 2U   | 3A    | 3L    | 3M    |

#### ⑤ Terminal Configuration

|            |   |   |   |   |
|------------|---|---|---|---|
| FORM       | THREADED STUD   | THREADED INSERT   | THREADED STUD + MOUNTING  | THREADED INSERT + MOUNTING  |
| CODE       | A   | B   | C   | J   |
| FORM STYLE |  |  |  |  |

#### ⑥ Terminal Pitch

|            |      |      |      |      |
|------------|------|------|------|------|
| Lead SPACE | 37.5 | 41.5 | 45.0 | 52.5 |
| CODE       | 37   | 41   | 45   | 52   |

#### ⑦ Terminal

|          |    |    |    |    |    |     |     |
|----------|----|----|----|----|----|-----|-----|
| TERMINAL | M3 | M4 | M5 | M6 | M8 | M10 | M12 |
| CODE     | C  | D  | E  | F  | H  | J   | L   |

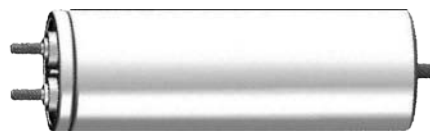
#### ⑧ Terminal Length

|        |      |      |        |     |
|--------|------|------|--------|-----|
| FORM   | STUD |      | INSERT |     |
| LENGTH | 20.0 | 15.0 | 2.0    | 5.0 |
| CODE   | A    | B    | 2      | 5   |

# Metallized Polypropylene Film Capacitor(Aluminium Can) DC-Link Application

## DPM

High capacity DC Filter Capacitor consists of wound metallized polypropylene film, aluminium casing sealed with epoxy. This capacitor is suitable for use in DC filter circuits, Solar Inverter, Industrial Inverter and able to replace electrolytic capacitors.



### ■ APPLICATIONS

Switching Power supplies .

UPS System.

Power converters.

Solar Inverter.

### ■ FEATURES

High ripple current.

High Capacitance.

Excellent stable performance and reliability.

Flame retardant plastic case and epoxy resin.

### ■ SPECIFICATIONS

Operating Temperature:  $-40^{\circ}\text{C} \text{ -- } +85^{\circ}\text{C}$ .

Capacitance Range:  $50\mu\text{F} - 600\mu\text{F}$ .

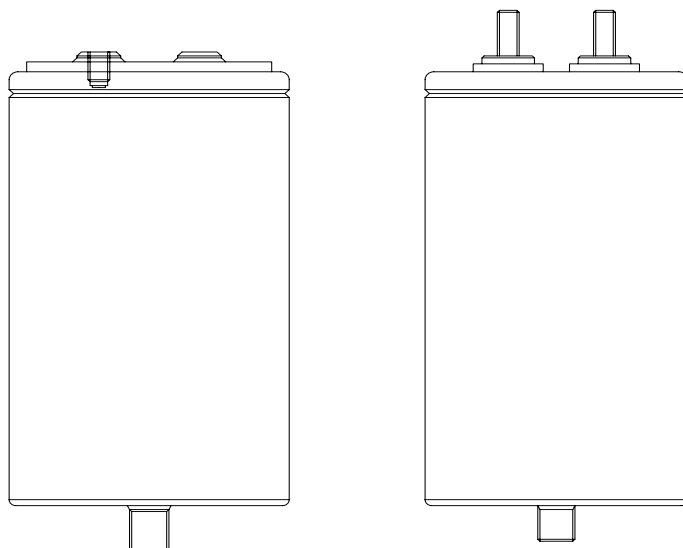
Capacitance Tolerance:  $\pm 10\%(\text{K})$  .

Rated Voltage:  $700\text{VDC} - 1300\text{VDC}$ .

Dielectric Strength:  $1.5 \times$  rated voltage for 2s  
(terminal to terminal)

Terminals to Case:  $3.0 \text{ KV}$  for 2 sec. @  $25^{\circ}\text{C}$

Life Expectancy: 100,000 hours at  $U_n 85^{\circ}\text{C}$



# Metallized Polypropylene Film Capacitor(Aluminium Can) DC-Link Application

**DPM**

**■ DIMENSIONS / 产品尺寸**

| SIZE            |      | 700 V D C |         |        |              |            |                                    |                                    |                                    |                      |
|-----------------|------|-----------|---------|--------|--------------|------------|------------------------------------|------------------------------------|------------------------------------|----------------------|
| R.V.<br>CAP(μF) | (mm) | H (mm)    | H1 (mm) | ESL nH | dv/dt (v/us) | I peak (A) | I <sub>rms</sub> @100KHz +40°C (A) | I <sub>rms</sub> @100KHz +55°C (A) | I <sub>rms</sub> @100KHz +75°C (A) | ESR @100KHz +25°C mΩ |
| 120             | 76   | 55        | 61      | 36     | 21           | 2520       | 63                                 | 55                                 | 33                                 | 1.0                  |
| 160             | 85   | 55        | 61      | 36     | 21           | 3360       | 73                                 | 60                                 | 38                                 | 0.8                  |
| 175             | 76   | 70        | 76      | 40     | 14           | 2450       | 62                                 | 52                                 | 34                                 | 1.2                  |
| 225             | 85   | 70        | 76      | 40     | 14           | 3150       | 70                                 | 60                                 | 35                                 | 1.1                  |
| 350             | 76   | 120       | 126     | 50     | 7            | 2450       | 55                                 | 45                                 | 30                                 | 2.6                  |
| 425             | 76   | 140       | 146     | 60     | 6            | 2550       | 55                                 | 45                                 | 30                                 | 3.1                  |
| 450             | 85   | 120       | 126     | 50     | 7            | 3150       | 65                                 | 55                                 | 32                                 | 2.2                  |
| 550             | 85   | 140       | 146     | 60     | 6            | 3300       | 65                                 | 55                                 | 32                                 | 2.5                  |

**■ DIMENSIONS / 产品尺寸**

| SIZE            |      | 900V D C |         |        |              |            |                                    |                                    |                                    |                      |
|-----------------|------|----------|---------|--------|--------------|------------|------------------------------------|------------------------------------|------------------------------------|----------------------|
| R.V.<br>CAP(μF) | (mm) | H (mm)   | H1 (mm) | ESL nH | dv/dt (v/us) | I peak (A) | I <sub>rms</sub> @100KHz +40°C (A) | I <sub>rms</sub> @100KHz +55°C (A) | I <sub>rms</sub> @100KHz +75°C (A) | ESR @100KHz +25°C mΩ |
| 75              | 76   | 55       | 61      | 36     | 26           | 1950       | 57                                 | 47                                 | 30                                 | 1.1                  |
| 100             | 85   | 55       | 61      | 36     | 26           | 2600       | 65                                 | 53                                 | 32                                 | 1.0                  |
| 110             | 76   | 70       | 76      | 40     | 17           | 1870       | 57                                 | 47                                 | 30                                 | 1.5                  |
| 150             | 85   | 70       | 76      | 40     | 17           | 2550       | 65                                 | 55                                 | 35                                 | 1.2                  |
| 220             | 76   | 120      | 126     | 50     | 9            | 1980       | 50                                 | 42                                 | 27                                 | 3.2                  |
| 275             | 76   | 140      | 146     | 60     | 7            | 1925       | 50                                 | 42                                 | 28                                 | 3.7                  |
| 300             | 85   | 120      | 126     | 50     | 9            | 2700       | 60                                 | 50                                 | 30                                 | 2.5                  |
| 350             | 85   | 140      | 146     | 60     | 7            | 2450       | 60                                 | 48                                 | 30                                 | 3.1                  |

**■ DIMENSIONS / 产品尺寸**

| SIZE            |      | 1100 V D C |         |        |              |            |                                    |                                    |                                    |                      |
|-----------------|------|------------|---------|--------|--------------|------------|------------------------------------|------------------------------------|------------------------------------|----------------------|
| R.V.<br>CAP(μF) | (mm) | H (mm)     | H1 (mm) | ESL nH | dv/dt (v/us) | I peak (A) | I <sub>rms</sub> @100KHz +40°C (A) | I <sub>rms</sub> @100KHz +55°C (A) | I <sub>rms</sub> @100KHz +75°C (A) | ESR @100KHz +25°C mΩ |
| 50              | 76   | 55         | 61      | 36     | 31           | 1550       | 52                                 | 43                                 | 30                                 | 1.3                  |
| 70              | 85   | 55         | 61      | 36     | 31           | 2170       | 62                                 | 50                                 | 30                                 | 1.1                  |
| 75              | 76   | 70         | 76      | 40     | 21           | 1575       | 58                                 | 43                                 | 30                                 | 1.7                  |
| 100             | 85   | 70         | 76      | 40     | 21           | 2100       | 60                                 | 50                                 | 32                                 | 1.4                  |
| 150             | 76   | 120        | 126     | 50     | 11           | 1650       | 45                                 | 38                                 | 25                                 | 3.8                  |
| 190             | 76   | 140        | 146     | 60     | 9            | 1710       | 47                                 | 38                                 | 25                                 | 4.3                  |
| 200             | 85   | 120        | 126     | 50     | 11           | 2200       | 55                                 | 45                                 | 30                                 | 3.0                  |
| 250             | 85   | 140        | 146     | 60     | 9            | 2250       | 55                                 | 45                                 | 30                                 | 3.5                  |

# Metallized Polypropylene Film Capacitor(Aluminium Can) DC-Link Application

## DPM

### ■ DIMENSIONS / 产品尺寸

| SIZE            |      | 900 V D C |            |           |                 |               |  |  |  |                            |  |
|-----------------|------|-----------|------------|-----------|-----------------|---------------|--|--|--|----------------------------|--|
| R.V.<br>CAP(μF) | (mm) | H<br>(mm) | H1<br>(mm) | ESL<br>nH | dv/dt<br>(v/us) | I peak<br>(A) | I <sub>rms</sub><br>@100KHz<br>+40°C (A) | I <sub>rms</sub><br>@100KHz<br>+55°C (A) | I <sub>rms</sub><br>@100KHz<br>+75°C (A) | ESR<br>@100KHz<br>+25°C mΩ |  |
| 200             | 76   | 95        | 101        | 36        | 10              | 2000          | 45                                       | 36                                       | 25                                       | 2.4                        |  |
| 270             | 76   | 95        | 101        | 36        | 10              | 2700          | 50                                       | 40                                       | 30                                       | 1.8                        |  |
| 370             | 85   | 95        | 101        | 40        | 10              | 3700          | 60                                       | 50                                       | 35                                       | 1.5                        |  |
| 510             | 85   | 120       | 126        | 40        | 7               | 3570          | 60                                       | 50                                       | 35                                       | 1.9                        |  |
| 600             | 85   | 140       | 146        | 40        | 7               | 4200          | 58                                       | 47                                       | 33                                       | 2.2                        |  |

### ■ DIMENSIONS / 产品尺寸

| SIZE            |      | 1100 V D C |            |           |                 |               |  |  |  |                            |  |
|-----------------|------|------------|------------|-----------|-----------------|---------------|--|--|--|----------------------------|--|
| R.V.<br>CAP(μF) | (mm) | H<br>(mm)  | H1<br>(mm) | ESL<br>nH | dv/dt<br>(v/us) | I peak<br>(A) | I <sub>rms</sub><br>@100KHz<br>+40°C (A) | I <sub>rms</sub><br>@100KHz<br>+55°C (A) | I <sub>rms</sub><br>@100KHz<br>+75°C (A) | ESR<br>@100KHz<br>+25°C mΩ |  |
| 130             | 76   | 95         | 101        | 36        | 12              | 1560          | 40                                       | 33                                       | 23                                       | 2.8                        |  |
| 175             | 76   | 95         | 101        | 36        | 12              | 2100          | 46                                       | 38                                       | 27                                       | 2.2                        |  |
| 240             | 85   | 95         | 101        | 40        | 12              | 2880          | 56                                       | 46                                       | 32                                       | 1.7                        |  |
| 280             | 76   | 140        | 146        | 40        | 7               | 1960          | 43                                       | 35                                       | 25                                       | 3.5                        |  |
| 330             | 85   | 140        | 146        | 40        | 7               | 2310          | 50                                       | 40                                       | 28                                       | 3                          |  |
| 500             | 85   | 174        | 180        | 80        | 12              | 6000          | 90                                       | 72                                       | 50                                       | 1.3                        |  |

### ■ DIMENSIONS / 产品尺寸

| SIZE            |      | 1300 V D C |            |           |                 |               |  |  |  |                            |  |
|-----------------|------|------------|------------|-----------|-----------------|---------------|--|--|--|----------------------------|--|
| R.V.<br>CAP(μF) | (mm) | H<br>(mm)  | H1<br>(mm) | ESL<br>nH | dv/dt<br>(v/us) | I peak<br>(A) | I <sub>rms</sub><br>@100KHz<br>+40°C (A) | I <sub>rms</sub><br>@100KHz<br>+55°C (A) | I <sub>rms</sub><br>@100KHz<br>+75°C (A) | ESR<br>@100KHz<br>+25°C mΩ |  |
| 90              | 76   | 95         | 101        | 36        | 15              | 1350          | 37                                       | 30                                       | 22                                       | 3.5                        |  |
| 120             | 76   | 95         | 101        | 36        | 15              | 1800          | 43                                       | 35                                       | 24                                       | 2.7                        |  |
| 165             | 85   | 95         | 101        | 40        | 15              | 2475          | 52                                       | 42                                       | 30                                       | 2.1                        |  |
| 195             | 76   | 140        | 146        | 50        | 9               | 1755          | 40                                       | 33                                       | 23                                       | 4.2                        |  |
| 250             | 85   | 140        | 146        | 50        | 9               | 2250          | 47                                       | 39                                       | 27                                       | 3.5                        |  |
| 320             | 85   | 174        | 180        | 80        | 15              | 4800          | 82                                       | 67                                       | 47                                       | 1.6                        |  |
| 550             | 85   | 264        | 270        | 100       | 9               | 4950          | 82                                       | 67                                       | 47                                       | 2.3                        |  |

# Metallized Polypropylene Film Capacitor(Aluminium Can) DC-Link Application

## DPM

■ Terminal Style:

