

# Plastic Film Capacitors

## Part Number System

Main Series

|   |   |   |
|---|---|---|
| J | F | A |
|---|---|---|

Sub-Series

|   |
|---|
| 0 |
|---|

Voltage

|   |   |
|---|---|
| 2 | A |
|---|---|

Capacitance

|   |   |   |
|---|---|---|
| 1 | 0 | 2 |
|---|---|---|

Tol.

|   |
|---|
| J |
|---|

Pitch

|   |   |   |
|---|---|---|
| 0 | 5 | 0 |
|---|---|---|

Lead Length

|   |   |   |
|---|---|---|
| 0 | 0 | 0 |
|---|---|---|

Packing

|   |
|---|
| B |
|---|

| Main Series | Sub-Series  |
|-------------|-------------|
| JFA         | 0           |
| JFB         | 0           |
| JFC         | 0           |
| JFD         | 0           |
| JFE         | 0           |
| JFF         | 0           |
| JFG         | A           |
|             | B           |
|             | C           |
|             | D           |
| JFH         | 0           |
| JFJ         | 0           |
|             | 1           |
| JFL         | 0           |
| JFM         | 0           |
| JFN         | 0           |
| JFO         | 0           |
| JFP         | 0           |
| JFQ         | 0           |
| JFQ         | D           |
| JFQ         | P           |
| JFR         | A           |
|             | R           |
| JFS         | Refer spec. |
|             | 0           |
| JFT         | 0           |
| JFV         | 0           |
| JFW         | 0           |
| JFZ         | 0           |

| Voltage | Code |
|---------|------|
| 50V     | 1H   |
| 63V     | 1J   |
| 100V    | 2A   |
| 160V    | 2C   |
| 200V    | 2D   |
| 250V    | 2E   |
| 300V    | 2L   |
| 360V    | 2N   |
| 400V    | 2G   |
| 600V    | 2U   |
| 630V    | 2J   |
| 700V    | 2M   |
| 800V    | 2K   |
| 900V    | 1X   |
| 1,000V  | 3A   |
| 1,100V  | 3Z   |
| 1,250V  | 3B   |
| 1,300V  | 3M   |
| 1,600V  | 3C   |
| 2,000V  | 3D   |
| 3,000V  | 3F   |
| 9,000   | 3X   |
| 125VAC  | B2   |
| 150VAC  | D0   |
| 250VAC  | A3   |
| 275VAC  | A1   |
| 300VAC  | A2   |
| 305VAC  | A8   |
| 310VAC  | A9   |
| 320VAC  | K2   |
| 330VAC  | R1   |
| 350VAC  | R2   |
| 400VAC  | A4   |
| 440VAC  | A5   |
| 450VAC  | A6   |
| 475VAC  | S3   |
| 480VAC  | A7   |
| 500VAC  | H2   |
| 630VAC  | J2   |

| Capacitance | Code |
|-------------|------|
| 10pF        | 100  |
| 100pF       | 101  |
| 1000pF      | 102  |
| 0.01uF      | 103  |
| 0.1uF       | 104  |
| 1uF         | 105  |
| 10uF        | 106  |

| Tol. | Code |
|------|------|
| ±1%  | F    |
| ±2%  | G    |
| ±3%  | E    |
| ±5%  | J    |
| ±10% | K    |

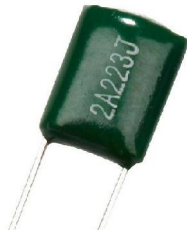
| Pitch | Code |
|-------|------|
| Axial | 000  |
| 3.5   | 035  |
| 4.0   | 040  |
| 4.5   | 045  |
| 5.0   | 050  |
| 6.0   | 060  |
| 7.0   | 070  |
| 8.0   | 080  |
| 8.5   | 085  |
| 9.0   | 090  |
| 9.5   | 095  |
| 10.0  | 100  |
| 10.5  | 105  |
| 11.0  | 110  |
| 11.5  | 115  |
| 12.0  | 120  |
| 12.5  | 125  |
| 13.0  | 130  |
| 15.0  | 150  |
| 15.5  | 155  |
| 20.0  | 200  |
| 20.5  | 205  |
| 21.0  | 210  |
| 22.5  | 225  |
| 26.5  | 265  |
| 27.5  | 275  |

| Special require |      |
|-----------------|------|
| For JFQP        |      |
| P2              | Code |
| 10.2            | 102  |
| 20.3            | 203  |

| Lead Length      | Code |
|------------------|------|
| Standard.        | 000  |
| Cut Lead Length  |      |
| 3.5              | 035  |
| 4.0              | 040  |
| 4.5              | 045  |
| 5.0              | 050  |
| 6.0              | 060  |
| Long Lead Length |      |
| 25               | 250  |
| 30               | 300  |
| 35               | 350  |

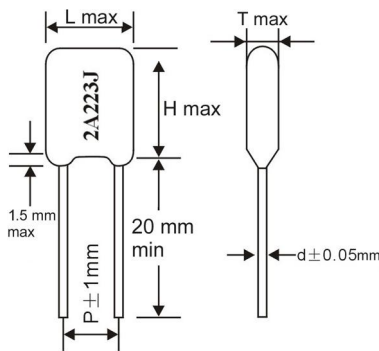
| Packing     | Code |
|-------------|------|
| Ammo        | A    |
| Bulk        | B    |
| Tape & Reel | R    |

# Mylar Polyester Film Capacitor – JFA



## FEATURES

- Inductive welded construction epoxy dip coated.
- Good reputation in use with consumer & industrial electronics.
- Optimum for automatic insertion due to their small size and light weight.
- Coated with epoxy resin for superior heat resistance, humidity resistance and solvent resistance.



## SPECIFICATIONS

|                       |  |
|-----------------------|--|
| Operating Temperature | -40°C ~ +85°C                            |
| Rated Voltage         | 100V, 250V, 400V, 630V, 1000V, 1200V, DC |
| Capacitance Range     | 0.001 ~ 0.22μF                           |
| Capacitance Tolerance | ±5%, ±10%, ±20%                          |
| Insulation Resistance | 0.1μF ≤ 30,000MΩ min, >0.1μF > 15000MΩ   |
| Dissipation Factor    | ≤ 0.1 (at 1KHz)                          |
| Dielectric Strength   | 200% of rated voltage for 5 sec.         |

### STANDARD SIZE (mm)

| VDC<br>Mfd | 100V |      |     |     | 250V |      |     |     | 400V |      |     |     | 630V |      |     |     | 1000V |      |     |     | 1200V |      |     |     |
|------------|------|------|-----|-----|------|------|-----|-----|------|------|-----|-----|------|------|-----|-----|-------|------|-----|-----|-------|------|-----|-----|
|            | L    | H    | T   | P   | L    | H    | T   | P   | L    | H    | T   | P   | L    | H    | T   | P   | L     | H    | T   | P   | L     | H    | T   | P   |
| 0.001      | 6.0  | 11.0 | 5.0 | 3.5 | 6.0  | 11.0 | 5.0 | 3.5 | 6.0  | 11.0 | 5.0 | 3.5 | 7.0  | 12.0 | 5.0 | 4.0 | 8.5   | 13.0 | 4.5 | 5.0 | 8.5   | 13.0 | 4.5 | 5.0 |
| 0.0012     | 6.0  | 11.0 | 5.0 | 3.5 | 6.0  | 11.0 | 5.0 | 3.5 | 6.0  | 11.0 | 5.0 | 3.5 | 7.0  | 12.0 | 5.0 | 4.0 | 8.5   | 13.0 | 4.5 | 5.0 | 8.5   | 13.0 | 4.5 | 5.0 |
| 0.0015     | 6.5  | 11.0 | 4.5 | 3.5 | 6.5  | 11.0 | 4.5 | 3.5 | 6.5  | 11.0 | 5.0 | 3.5 | 7.0  | 12.0 | 5.0 | 4.0 | 8.5   | 13.5 | 5.0 | 5.0 | 8.5   | 13.5 | 5.0 | 5.0 |
| 0.0018     | 6.5  | 11.0 | 4.0 | 3.5 | 6.5  | 11.0 | 4.0 | 4.0 | 7.0  | 11.5 | 5.0 | 4.0 | 7.0  | 12.0 | 5.0 | 4.0 | 9.0   | 13.5 | 5.5 | 5.5 | 9.0   | 13.5 | 5.5 | 5.5 |
| 0.0022     | 6.5  | 11.0 | 4.0 | 3.5 | 6.5  | 11.0 | 4.0 | 4.0 | 7.0  | 12.0 | 4.5 | 4.0 | 7.0  | 12.0 | 5.0 | 4.0 | 8.5   | 13.5 | 5.0 | 5.5 | 8.5   | 13.5 | 5.0 | 5.5 |
| 0.0027     | 6.5  | 11.0 | 4.5 | 3.5 | 6.5  | 11.0 | 4.5 | 4.0 | 7.0  | 12.0 | 4.5 | 4.0 | 7.0  | 12.0 | 5.0 | 4.0 | 8.5   | 13.5 | 5.0 | 5.5 | 8.5   | 13.5 | 5.0 | 5.5 |
| 0.0033     | 6.5  | 11.0 | 4.0 | 4.0 | 6.5  | 11.0 | 4.0 | 4.0 | 7.5  | 12.5 | 5.0 | 4.5 | 7.5  | 12.5 | 5.0 | 4.5 | 10.0  | 14.0 | 5.5 | 6.0 | 10.0  | 14.0 | 5.5 | 6.0 |
| 0.0039     | 6.5  | 11.0 | 4.0 | 4.0 | 6.5  | 11.0 | 4.0 | 4.0 | 7.5  | 12.5 | 5.0 | 5.0 | 7.5  | 12.5 | 5.0 | 5.0 | 10.0  | 15.5 | 5.5 | 7.0 | 10.0  | 15.5 | 5.5 | 7.0 |
| 0.0047     | 7.0  | 11.0 | 4.5 | 4.0 | 7.0  | 11.0 | 4.5 | 4.0 | 8.0  | 12.5 | 5.0 | 5.0 | 8.0  | 12.5 | 5.0 | 5.0 | 10.5  | 16.0 | 6.5 | 7.0 | 10.5  | 16.0 | 6.5 | 7.0 |
| 0.0056     | 7.0  | 11.0 | 4.5 | 4.0 | 7.0  | 11.0 | 4.5 | 4.0 | 8.0  | 12.5 | 5.0 | 5.0 | 8.0  | 13.0 | 5.0 | 5.0 | 10.5  | 16.0 | 6.5 | 7.5 | 10.5  | 16.0 | 6.5 | 7.5 |
| 0.0068     | 7.0  | 11.0 | 4.5 | 4.0 | 7.0  | 11.0 | 4.5 | 4.0 | 8.0  | 13.0 | 5.0 | 5.0 | 8.0  | 13.0 | 5.0 | 5.0 | 11.0  | 16.0 | 6.5 | 7.5 | 11.0  | 16.0 | 6.5 | 7.5 |
| 0.0082     | 7.0  | 11.0 | 4.5 | 4.0 | 7.0  | 11.0 | 4.5 | 4.0 | 8.0  | 13.5 | 5.5 | 5.0 | 8.0  | 13.5 | 5.5 | 5.0 | 11.5  | 16.5 | 7.0 | 8.0 | 11.5  | 16.5 | 7.0 | 8.0 |
| 0.01       | 7.0  | 11.0 | 4.5 | 4.0 | 7.0  | 11.0 | 4.5 | 4.0 | 7.5  | 13.0 | 4.5 | 5.0 | 8.5  | 13.0 | 5.5 | 5.5 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.012      | 7.0  | 11.0 | 4.5 | 4.0 | 7.0  | 11.0 | 4.5 | 4.0 | 7.5  | 13.0 | 4.5 | 5.5 | 8.5  | 13.0 | 5.5 | 5.5 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.015      | 7.5  | 11.0 | 4.5 | 4.0 | 7.5  | 11.0 | 4.5 | 4.0 | 8.0  | 13.5 | 5.0 | 5.5 | 9.0  | 13.5 | 6.0 | 6.0 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.018      | 7.5  | 11.0 | 5.0 | 5.0 | 7.5  | 11.0 | 5.0 | 5.0 | 8.0  | 13.5 | 5.0 | 5.5 | 9.0  | 13.5 | 6.0 | 6.0 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.022      | 8.0  | 12.0 | 5.5 | 5.0 | 8.0  | 12.5 | 4.5 | 5   | 10.0 | 13.5 | 6.0 | 6.5 | 11.0 | 14.0 | 6.5 | 7.5 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.027      | 8.5  | 12.5 | 5.0 | 5.5 | 8.5  | 12.5 | 5.0 | 5.5 | 10.0 | 13.5 | 6.0 | 6.5 | 11.0 | 14.0 | 6.5 | 7.5 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.033      | 8.5  | 12.5 | 5.5 | 5.5 | 8.5  | 13.0 | 6.0 | 6.0 | 11.0 | 13.5 | 6.5 | 7.0 | 12.5 | 15.0 | 8.0 | 8.0 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.039      | 8.5  | 13.0 | 5.5 | 5.5 | 8.5  | 13.5 | 6.0 | 6.0 | 11.5 | 14.0 | 6.5 | 7.0 | 12.5 | 15.0 | 8.0 | 8.0 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.04       | 8.5  | 13.0 | 5.5 | 5.5 | 8.5  | 13.5 | 6.0 | 6.0 | --   | --   | --  | --  | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.047      | 9.0  | 12.5 | 5.5 | 6.0 | 10.0 | 13.0 | 6.5 | 6.5 | 10.5 | 15.5 | 7.0 | 7.5 | 12.0 | 16.0 | 8.0 | 8.0 | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.056      | 9.5  | 12.5 | 5.5 | 6.5 | 10.0 | 13.0 | 6.5 | 6.5 | 10.5 | 15.5 | 7.0 | 8.0 | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.068      | 10.0 | 13.0 | 6.5 | 6.5 | 11.0 | 14.0 | 7.0 | 7.0 | 12.5 | 16.5 | 8.5 | 8.5 | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.082      | 11.0 | 13.0 | 6.5 | 7.5 | 11.0 | 14.0 | 7.0 | 7.0 | --   | --   | --  | --  | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.1        | 11.0 | 13.0 | 7.5 | 7.5 | 12.0 | 14.0 | 7.5 | 7.5 | 14.0 | 16.0 | 9.0 | 9.0 | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.12       | 11.0 | 13.0 | 7.5 | 7.5 | 12.0 | 14.0 | 7.5 | 7.5 | --   | --   | --  | --  | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.15       | 11.5 | 13.0 | 7.0 | 7.5 | --   | --   | --  | --  | --   | --   | --  | --  | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.18       | 12.0 | 13.5 | 7.5 | 7.5 | --   | --   | --  | --  | --   | --   | --  | --  | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |
| 0.22       | 12.5 | 13.5 | 8.0 | 7.5 | --   | --   | --  | --  | --   | --   | --  | --  | --   | --   | --  | --  | --    | --   | --  | --  | --    | --   | --  | --  |

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