



# ELECTRONIC EQUIPMENT FILM CAPACITOR

## DADC Series



- It is excellent in coping with high current and in heat radiation.
- It can handle a frequency of above 100kHz.
- The amor is a powder molded flame resisting epoxy resin (correspond V-0).

### ◆ SPECIFICATIONS

| Items  | Characteristics   |
|--|---|
| Category temperature range                     | -40 to +105°C   |
| Rated voltage range                            | 250 to 630V <sub>dc</sub>   |
| Capacitance tolerance                          | ±5% (J)   |
| Voltage proof<br>(Terminal - Terminal)         | No degradation, at 150% of rated voltage shall be applied for 60 seconds.   |
| Dissipation factor<br>(tanδ)                   | No more than 0.05%  |
| Insulation resistance<br>(Terminal - Terminal) | No less than 50000MΩ : Equal or less than 1μF.<br>No less than 50000ΩF : More than 1μF.   |
|  | Rated voltage (V <sub>dc</sub> )    250    400    630   |
|  | Measurement voltage (V <sub>dc</sub> )    100    100    500   |
| Endurance                                      | The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 85°C.                                  |
|  | Appearance    No serious degradation  |
|  | Insulation resistance<br>(Terminal - Terminal)    No less than 25000MΩ : Equal or less than 1μF.<br>No less than 25000ΩF : More than 1μF. |
|  | Dissipation factor (tanδ)    No more than initial specification at 1kHz.  |
|  | Capacitance change    Within ±3% of initial value.  |
| Loading under damp<br>heat                     | The following specifications shall be satisfied, after 500hrs with applying rated voltage at 40°C 90~95%RH.                               |
|  | Appearance    No serious degradation.   |
|  | Insulation resistance<br>(Terminal - Terminal)    No less than 25000MΩ : Equal or less than 1μF.<br>No less than 25000ΩF : More than 1μF. |
|  | Dissipation factor (tanδ)    No more than initial specification at 1kHz.  |
|  | Capacitance change    Within ±5% of initial value.  |

### ◆ STANDARD RATINGS

| WV<br>(V <sub>dc</sub> ) | Cap<br>(μF) | Dimensions (mm) |      |      |                    |                    | Maximum<br>ripple current<br>(Arms) | WV<br>(Vac) | Part Number        | Previous Part Number<br>(Just for your reference) |
|--------------------------|-------------|-----------------|------|------|--------------------|--------------------|-------------------------------------|-------------|--------------------|---|
|                          |             | W               | H    | T    | F                  | φd                 |                                     |             |                    |   |
| 250                      | 0.01        | 15.5            | 11.0 | 7.0  | 7.5                | 0.8                | 0.78                                | 125         | FDADC251V103JGLBM0 | DADC2E103J-F2BM                                   |
|                          | 0.012       |                 | 11.5 | 7.5  |                    |                    | 1.0                                 |             | FDADC251V123JGLBM0 | DADC2E123J-F2BM                                   |
|                          | 0.015       |                 | 13.0 | 8.5  |                    |                    | 1.2                                 |             | FDADC251V153JGLBM0 | DADC2E153J-F2BM                                   |
|                          | 0.018       |                 | 11.5 | 7.5  |                    |                    | 1.4                                 |             | FDADC251V183JGLBM0 | DADC2E183J-F2BM                                   |
|                          | 0.022       |                 | 12.0 | 6.0  |                    |                    | 1.7                                 |             | FDADC251V223JGLBM0 | DADC2E223J-F2BM                                   |
|                          | 0.027       |                 | 12.5 | 6.5  |                    |                    | 1.9                                 |             | FDADC251V273JGLBM0 | DADC2E273J-F2BM                                   |
|                          | 0.033       |                 | 13.0 | 7.0  |                    |                    | 2.2                                 |             | FDADC251V333JGLBM0 | DADC2E333J-F2BM                                   |
|                          | 0.039       |                 | 13.0 | 7.5  |                    |                    | 2.4                                 |             | FDADC251V393JGLBM0 | DADC2E393J-F2BM                                   |
|                          | 0.047       |                 | 15.5 | 7.5  |                    |                    | 2.6                                 |             | FDADC251V473JGLBM0 | DADC2E473J-F2BM                                   |
|                          | 0.056       |                 | 15.5 | 7.5  |                    |                    | 2.8                                 |             | FDADC251V563JGLBM0 | DADC2E563J-F2BM                                   |
|                          | 0.068       |                 | 12.0 | 6.5  |                    |                    | 2.9                                 |             | FDADC251V683JGLBM0 | DADC2E683J-F2BM                                   |
|                          | 0.082       |                 | 12.5 | 7.0  |                    |                    | 3.0                                 |             | FDADC251V823JGLBM0 | DADC2E823J-F2BM                                   |
|                          | 0.1         | 12.0            | 6.5  | 3.1  | FDADC251V104JDLBM0 | DADC2E104J-F2BM    |                                     |             |                    |   |
|                          | 0.12        | 12.5            | 7.0  | 3.3  | FDADC251V124JDLBM0 | DADC2E124J-F2BM    |                                     |             |                    |   |
|                          | 0.15        | 14.0            | 7.0  | 3.4  | FDADC251V154JDLBM0 | DADC2E154J-F2BM    |                                     |             |                    |   |
|                          | 0.18        | 14.5            | 7.5  | 3.6  | FDADC251V184JDLBM0 | DADC2E184J-F2BM    |                                     |             |                    |   |
|                          | 0.22        | 15.5            | 7.5  | 3.7  | FDADC251V224JDLBM0 | DADC2E224J-F2BM    |                                     |             |                    |   |
|                          | 0.27        | 16.0            | 8.0  | 3.8  | FDADC251V274JDLBM0 | DADC2E274J-F2BM    |                                     |             |                    |   |
|                          | 0.33        | 16.5            | 8.5  | 4.0  | FDADC251V334JDLBM0 | DADC2E334J-F2BM    |                                     |             |                    |   |
|                          | 0.39        | 17.5            | 9.0  | 4.1  | FDADC251V394JDLBM0 | DADC2E394J-F2BM    |                                     |             |                    |   |
|                          | 0.47        | 16.5            | 8.0  | 4.3  | FDADC251V474JNLBM0 | DADC2E474J-F2BM    |                                     |             |                    |   |
|                          | 0.56        | 17.0            | 8.5  | 4.6  | FDADC251V564JNLBM0 | DADC2E564J-F2BM    |                                     |             |                    |   |
|                          | 0.68        | 17.5            | 9.0  | 5.0  | FDADC251V684JNLBM0 | DADC2E684J-F2BM    |                                     |             |                    |   |
|                          | 0.82        | 18.0            | 10.0 | 5.3  | FDADC251V824JNLBM0 | DADC2E824J-F2BM    |                                     |             |                    |   |
|                          | 1.0         | 19.0            | 10.5 | 5.7  | FDADC251V105JNLBM0 | DADC2E105J-F2BM    |                                     |             |                    |   |
|                          | 1.2         | 20.0            | 11.5 | 6.2  | FDADC251V125JNLBM0 | DADC2E125J-F2BM    |                                     |             |                    |   |
|                          | 1.5         | 21.0            | 12.5 | 6.7  | FDADC251V155JNLBM0 | DADC2E155J-F2BM    |                                     |             |                    |   |
|                          | 1.8         | 22.0            | 14.0 | 7.2  | FDADC251V185JNLBM0 | DADC2E185J-F2BM    |                                     |             |                    |   |
|                          | 2.2         | 23.5            | 15.0 | 7.8  | FDADC251V225JNLBM0 | DADC2E225J-F2BM    |                                     |             |                    |   |
|                          | 2.7         | 24.0            | 15.5 | 8.2  | FDADC251V275JELBM0 | DADC2E275J-F2BM    |                                     |             |                    |   |
|                          | 3.3         | 24.5            | 16.5 | 8.7  | FDADC251V335JELBM0 | DADC2E335J-F2BM    |                                     |             |                    |   |
|                          | 3.9         | 25.5            | 17.5 | 9.1  | FDADC251V395JFLEM0 | DADC2E395J-F2EM    |                                     |             |                    |   |
| 4.7                      | 31.0        | 27.0            | 19.0 | 22.5 | 9.3                | FDADC251V475JFLEM0 | DADC2E475J-F2EM                     |             |                    |   |

- (1)The maximum ripple current : +85°C max., 100kHz, sine wave
- (2)WV(Vac) : 50Hz or 60Hz, sine wave

### ◆STANDARD RATINGS

| WV (Vdc) | Cap (μF) | Dimensions (mm) |      |      |                    |                    | Maximum ripple current (Arms) | WV (Vac)           | Part Number        | Previous Part Number (Just for your reference) |
|----------|----------|-----------------|------|------|--------------------|--------------------|-------------------------------|--------------------|--------------------|--|
|          |          | W               | H    | T    | F                  | φd                 |                               |                    |                    |  |
| 400      | 0.01     | 15.5            | 11.0 | 7.0  | 7.5                | 0.8                | 1.5                           | 250                | FDADC401V103JGLBM0 | DADC2G103J-F2BM                                |
|          | 0.012    |                 | 11.5 | 7.5  |                    |                    | 1.7                           |                    | FDADC401V123JGLBM0 | DADC2G123J-F2BM                                |
|          | 0.015    |                 | 13.0 | 8.5  |                    |                    | 1.9                           |                    | FDADC401V153JGLBM0 | DADC2G153J-F2BM                                |
|          | 0.018    |                 | 11.5 | 7.5  |                    |                    | 2.0                           |                    | FDADC401V183JGLBM0 | DADC2G183J-F2BM                                |
|          | 0.022    |                 | 12.0 | 6.0  |                    |                    | 2.2                           |                    | FDADC401V223JGLBM0 | DADC2G223J-F2BM                                |
|          | 0.027    |                 | 12.5 | 6.5  |                    |                    | 2.4                           |                    | FDADC401V273JGLBM0 | DADC2G273J-F2BM                                |
|          | 0.033    |                 | 13.0 | 7.0  |                    |                    | 2.6                           |                    | FDADC401V333JGLBM0 | DADC2G333J-F2BM                                |
|          | 0.039    |                 | 13.0 | 6.0  |                    |                    | 2.7                           |                    | FDADC401V393JGLBM0 | DADC2G393J-F2BM                                |
|          | 0.047    |                 | 13.5 | 6.5  |                    |                    | 2.9                           |                    | FDADC401V473JGLBM0 | DADC2G473J-F2BM                                |
|          | 0.056    |                 | 14.0 | 6.5  |                    |                    | 3.1                           |                    | FDADC401V563JGLBM0 | DADC2G563J-F2BM                                |
|          | 0.068    | 17.5            | 13.5 | 6.5  | 3.2                | FDADC401V683JDLBM0 | DADC2G683J-F2BM               |                    |                    |  |
|          | 0.082    |                 | 14.0 | 7.0  | 3.4                | FDADC401V823JDLBM0 | DADC2G823J-F2BM               |                    |                    |  |
|          | 0.1      |                 | 14.5 | 7.5  | 3.6                | FDADC401V104JDLBM0 | DADC2G104J-F2BM               |                    |                    |  |
|          | 0.12     |                 | 15.0 | 8.0  | 3.9                | FDADC401V124JDLBM0 | DADC2G124J-F2BM               |                    |                    |  |
|          | 0.15     |                 | 16.0 | 8.5  | 4.3                | FDADC401V154JDLBM0 | DADC2G154J-F2BM               |                    |                    |  |
|          | 0.18     |                 | 16.5 | 9.5  | 4.6                | FDADC401V184JDLBM0 | DADC2G184J-F2BM               |                    |                    |  |
|          | 0.22     |                 | 16.0 | 9.0  | 4.9                | FDADC401V224JHLBM0 | DADC2G224J-F2BM               |                    |                    |  |
|          | 0.27     |                 | 20.5 | 18.0 | 9.5                | 5.3                | FDADC401V274JHLBM0            |                    | DADC2G274J-F2BM    |  |
|          | 0.33     |                 |      | 19.0 | 10.5               | 5.6                | FDADC401V334JHLBM0            |                    | DADC2G334J-F2BM    |  |
|          | 0.39     |                 |      | 19.5 | 11.5               | 5.9                | FDADC401V394JHLBM0            |                    | DADC2G394J-F2BM    |  |
|          | 0.47     | 20.0            |      | 11.5 | 6.3                | FDADC401V474JNLBM0 | DADC2G474J-F2BM               |                    |                    |  |
|          | 0.56     | 21.0            |      | 13.0 | 6.6                | FDADC401V564JNLBM0 | DADC2G564J-F2BM               |                    |                    |  |
|          | 0.68     | 21.0            |      | 13.0 | 6.9                | FDADC401V684JELBM0 | DADC2G684J-F2BM               |                    |                    |  |
|          | 0.82     | 22.5            |      | 14.0 | 7.2                | FDADC401V824JELBM0 | DADC2G824J-F2BM               |                    |                    |  |
|          | 1.0      | 25.5            |      | 23.5 | 15.5               | 7.5                | FDADC401V105JELBM0            |                    | DADC2G105J-F2BM    |  |
|          | 1.2      |                 |      | 25.0 | 16.5               | 8.0                | FDADC401V125JELBM0            |                    | DADC2G125J-F2BM    |  |
|          | 1.5      |                 |      | 26.5 | 18.5               | 8.5                | FDADC401V155JELBM0            |                    | DADC2G155J-F2BM    |  |
|          | 1.8      |                 | 26.0 | 17.5 | 8.9                | FDADC401V185JFLEM0 | DADC2G185J-F2EM               |                    |                    |  |
|          | 2.2      |                 | 27.5 | 19.5 | 9.3                | FDADC401V225JFLEM0 | DADC2G225J-F2EM               |                    |                    |  |
|          | 0.01     |                 | 15.5 | 11.0 | 7.0                | 7.5                | 0.8                           |                    | 1.8                | 300  |
| 0.012    | 11.5     |                 |      | 7.5  | 2.0                |                    |                               | FDADC631V123JGLBM0 | DADC2J123J-F2BM    |  |
| 0.015    | 13.0     |                 |      | 8.5  | 2.1                |                    |                               | FDADC631V153JGLBM0 | DADC2J153J-F2BM    |  |
| 0.018    | 11.5     |                 |      | 7.5  | 2.2                |                    |                               | FDADC631V183JGLBM0 | DADC2J183J-F2BM    |  |
| 0.022    | 12.5     |                 |      | 7.0  | 2.3                |                    |                               | FDADC631V223JGLBM0 | DADC2J223J-F2BM    |  |
| 0.027    | 12.5     | 7.0             |      | 2.5  | FDADC631V273JGLBM0 |                    |                               | DADC2J273J-F2BM    |                    |  |
| 0.033    | 13.0     | 7.5             |      | 2.6  | FDADC631V333JGLBM0 |                    |                               | DADC2J333J-F2BM    |                    |  |
| 0.039    | 12.5     | 7.0             |      | 2.7  | FDADC631V393JHLBM0 |                    |                               | DADC2J393J-F2BM    |                    |  |
| 0.047    | 12.5     | 7.0             |      | 2.8  | FDADC631V473JHLBM0 |                    |                               | DADC2J473J-F2BM    |                    |  |
| 0.056    | 13.0     | 7.5             |      | 3.1  | FDADC631V563JHLBM0 |                    |                               | DADC2J563J-F2BM    |                    |  |
| 0.068    | 20.5     | 13.5            | 8.0  | 3.4  | FDADC631V683JHLBM0 | DADC2J683J-F2BM    |                               |                    |                    |  |
| 0.082    |          | 14.0            | 8.5  | 3.6  | FDADC631V823JHLBM0 | DADC2J823J-F2BM    |                               |                    |                    |  |
| 0.1      |          | 16.0            | 8.5  | 3.9  | FDADC631V104JHLBM0 | DADC2J104J-F2BM    |                               |                    |                    |  |
| 0.12     |          | 16.5            | 9.5  | 4.3  | FDADC631V124JHLBM0 | DADC2J124J-F2BM    |                               |                    |                    |  |
| 0.15     |          | 17.5            | 10.5 | 4.7  | FDADC631V154JHLBM0 | DADC2J154J-F2BM    |                               |                    |                    |  |
| 0.18     |          | 18.5            | 11.0 | 5.1  | FDADC631V184JHLBM0 | DADC2J184J-F2BM    |                               |                    |                    |  |
| 0.22     |          | 21.0            | 11.5 | 5.5  | FDADC631V224JHLBM0 | DADC2J224J-F2BM    |                               |                    |                    |  |
| 0.27     |          | 22.5            | 13.0 | 5.9  | FDADC631V274JHLBM0 | DADC2J274J-F2BM    |                               |                    |                    |  |
| 0.33     |          | 29.0            | 18.5 | 11.5 | 6.3                | FDADC631V334JPLNM0 | DADC2J334J-F2NM               |                    |                    |  |
| 0.39     |          |                 | 19.5 | 12.5 | 6.7                | FDADC631V394JPLNM0 | DADC2J394J-F2NM               |                    |                    |  |
| 0.47     | 20.5     |                 | 13.5 | 7.2  | FDADC631V474JPLNM0 | DADC2J474J-F2NM    |                               |                    |                    |  |
| 0.56     | 22.5     |                 | 14.0 | 7.6  | FDADC631V564JPLNM0 | DADC2J564J-F2NM    |                               |                    |                    |  |
| 0.68     | 23.5     |                 | 15.0 | 8.1  | FDADC631V684JPLNM0 | DADC2J684J-F2NM    |                               |                    |                    |  |
| 0.82     | 23.0     |                 | 14.5 | 8.6  | FDADC631V824JRLPM0 | DADC2J824J-F2PM    |                               |                    |                    |  |
| 1.0      | 36.0     |                 | 24.0 | 15.5 | 9.1                | FDADC631V105JRLPM0 | DADC2J105J-F2PM               |                    |                    |  |
| 1.2      |          |                 | 25.5 | 17.0 | 9.3                | FDADC631V125JRLPM0 | DADC2J125J-F2PM               |                    |                    |  |

(1)The maximum ripple current : +85°C max., 100kHz, sine wave

(2)WV(Vac) : 50Hz or 60Hz, sine wave

### ◆DIMENSIONS (mm)

