



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 _{dc} |
| Capacitance tolerance | ±5% (J) |
| Voltage proof (Terminal - Terminal) | No degradation, at 150% of rated voltage shall be applied for 60 seconds. |
| Dissipation factor (tanδ) | No more than 0.05% |
| Insulation resistance (Terminal - Terminal) | No less than 50000MΩ : Equal or less than 1μF. No less than 50000ΩF : More than 1μF. |
| | Rated voltage (V _{dc}) 250 400 630 |
| | Measurement voltage (V _{dc}) 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 (Terminal - Terminal) No less than 25000MΩ : Equal or less than 1μF. 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 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 (Terminal - Terminal) No less than 25000MΩ : Equal or less than 1μF. 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 (V _{dc}) | Cap (μF) | Dimensions (mm) | | | | | Maximum ripple current (Arms) | WV (Vac) | Part Number | Previous Part Number (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 | | 31.0 | 27.5 | 19.5 | 9.3 | FDADC401V225JFLEM0 | | DADC2G225J-F2EM | |
| | 0.01 | | | 15.5 | 11.0 | 7.0 | 1.8 | | 300 | FDADC631V103JGLBM0 |
| 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 | 16.0 | 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 | | 36.0 | 23.0 | 14.5 | 8.6 | FDADC631V824JRLPM0 | DADC2J824J-F2PM | | | |
| 1.0 | | | 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)

