



ELECTRONIC EQUIPMENT FILM CAPACITOR

DFDD Series



- A highly reliable capacitor for general applications using a metallized polyethylene terephthalate film as dielectric.
- Non-inductive structure made by special metal spraying process.
- 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 | ±10% (K) | | | | |
| Voltage proof (Terminal - Terminal) | No degradation, at 150% of rated voltage shall be applied for 60 seconds. | | | | |
| Dissipation factor (tanδ) | No more than 1.0% | | | | |
| Insulation resistance (Terminal - Terminal) | No less than 9000MΩ : Equal or less than 0.33μF. No less than 3000ΩF : More than 0.33μF. | | | | |
| | 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 4500MΩ : Equal or less than 0.33μF. No less than 1500ΩF : More than 0.33μF. | | | |
| | Dissipation factor (tanδ) | No more than 1.1%. | | | |
| | Capacitance change | Within ±5% 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 4500MΩ : Equal or less than 0.33μF. No less than 1500ΩF : More than 0.33μF. | | | |
| | Dissipation factor (tanδ) | No more than 1.1%. | | | |
| | Capacitance change | Within ±5% of initial value. | | | |

◆STANDARD RATINGS (LEAD STYLE : FORMING)

| WV (V _{dc}) | Cap (μF) | Dimensions (mm) | | | | | TYPE | Maximum ripple current (Arms) | WV (V _{ac}) | Part Number | Previous part Number (Just for your reference) |
|-----------------------|----------|-----------------|------|------|------|------------------|----------------|-------------------------------|-----------------------|------------------|--|
| | | W | H | T | F | φd | | | | | |
| 250 | 0.01 | 10.8 | 7.4 | 4.3 | 7.5 | 0.6 | A | 0.42 | 125 | DFD251U103KBFBM0 | DFD2E103K-F7BM |
| | 0.015 | | 7.5 | 4.4 | | | | 0.43 | | DFD251U153KBFBM0 | DFD2E153K-F7BM |
| | 0.022 | | 7.5 | 4.4 | | | | 0.43 | | DFD251U223KBFBM0 | DFD2E223K-F7BM |
| | 0.033 | | 7.5 | 4.5 | | | | 0.43 | | DFD251U333KBFBM0 | DFD2E333K-F7BM |
| | 0.047 | | 7.5 | 4.5 | | | | 0.43 | | DFD251U473KBFBM0 | DFD2E473K-F7BM |
| | 0.068 | | 7.5 | 4.5 | | | | 0.45 | | DFD251U683KBFBM0 | DFD2E683K-F7BM |
| | 0.1 | 13.0 | 8.4 | 5.8 | 10.0 | 0.8 | B | 0.46 | | DFD251U104KBFBM0 | DFD2E104K-F7BM |
| | 0.15 | | 10.5 | 6.0 | | | | 0.62 | | DFD251U154KBFBM0 | DFD2E154K-F7BM |
| | 0.22 | | 10.3 | 5.5 | | | | 0.78 | | DFD251U224KCFBM0 | DFD2E224K-F7CM |
| | 0.33 | | 12.0 | 6.5 | | | | 0.94 | | DFD251U334KCFBM0 | DFD2E334K-F7CM |
| | 0.47 | | 12.5 | 5.3 | | | | 1.1 | | DFD251U474KDLBM0 | DFD2E474K-F2CM |
| | 0.68 | | 15.0 | 7.0 | | | | 1.4 | | DFD251U684KDLBM0 | DFD2E684K-F2CM |
| | 1.0 | | 15.0 | 7.4 | | | | 1.8 | | DFD251U105KDLBM0 | DFD2E105K-F2CM |
| | 1.5 | | 17.0 | 9.0 | | | | 2.2 | | DFD251U155KDLBM0 | DFD2E155K-F2CM |
| 2.2 | 26.0 | 17.0 | 8.5 | 15.0 | 2.7 | DFD251U225KELDM0 | DFD2E225K-F2DM | | | | |
| 400 | 0.01 | 10.8 | 7.8 | 4.4 | 7.5 | 0.6 | A | 0.42 | 125 | DFD401U103KBFBM0 | DFD2G103K-F7BM |
| | 0.015 | | 7.8 | 4.4 | | | | 0.43 | | DFD401U153KBFBM0 | DFD2G153K-F7BM |
| | 0.022 | | 7.8 | 4.4 | | | | 0.43 | | DFD401U223KBFBM0 | DFD2G223K-F7BM |
| | 0.033 | | 9.0 | 5.5 | | | | 0.43 | | DFD401U333KBFBM0 | DFD2G333K-F7BM |
| | 0.047 | | 8.5 | 5.0 | | | | 0.43 | | DFD401U473KCFBM0 | DFD2G473K-F7CM |
| | 0.068 | | 10.5 | 5.5 | | | | 0.46 | | DFD401U683KCFBM0 | DFD2G683K-F7CM |
| | 0.1 | 13.0 | 12.0 | 6.5 | 10.0 | 0.8 | B | 0.48 | | DFD401U104KCFBM0 | DFD2G104K-F7CM |
| | 0.15 | | 12.5 | 5.0 | | | | 0.67 | | DFD401U154KDLBM0 | DFD2G154K-F2CM |
| | 0.22 | | 13.0 | 6.0 | | | | 0.86 | | DFD401U224KDLBM0 | DFD2G224K-F2CM |
| | 0.33 | | 15.0 | 7.0 | | | | 1.0 | | DFD401U334KDLBM0 | DFD2G334K-F2CM |
| | 0.47 | | 17.0 | 8.0 | | | | 1.2 | | DFD401U474KDLBM0 | DFD2G474K-F2CM |
| | 0.68 | | 16.5 | 7.0 | | | | 1.7 | | DFD401U684KELDM0 | DFD2G684K-F2DM |
| | 1.0 | | 18.0 | 8.5 | | | | 2.2 | | DFD401U105KELDM0 | DFD2G105K-F2DM |
| | 1.5 | | 20.0 | 10.5 | | | | 2.9 | | DFD401U155KELDM0 | DFD2G155K-F2DM |

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

(2)WV(V_{ac}) : 50Hz or 60Hz, sine wave



ELECTRONIC EQUIPMENT FILM CAPACITOR

DFDD Series

◆STANDARD RATINGS (LEAD STYLE : FORMING)

| WV (Vdc) | Cap (μF) | Dimensions (mm) | | | | | TYPE | Maximum ripple current (Arms) | WV (Vac) | Part Number | Previous Part Number (Just for your reference) | | | |
|----------|----------|-----------------|------|------|------|-----|------|-------------------------------|----------|-----------------|--|--|--|--|
| | | W | H | T | F | φd | | | | | | | | |
| 630 | 0.01 | 13.0 | 7.5 | 4.5 | 10.0 | 0.6 | A | 0.45 | 250 | DFD631U103KCFM0 | DFD2J103K-F7CM | | | |
| | 0.015 | | 8.0 | 5.0 | | | | DFD631U153KCFM0 | | DFD2J153K-F7CM | | | | |
| | 0.022 | | 10.5 | 5.5 | | | | DFD631U223KCFM0 | | DFD2J223K-F7CM | | | | |
| | 0.033 | | 12.0 | 6.0 | | | | DFD631U333KCFM0 | | DFD2J333K-F7CM | | | | |
| | 0.047 | | 13.5 | 6.5 | | | | DFD631U473KCFM0 | | DFD2J473K-F7CM | | | | |
| | 0.068 | 18.0 | 11.0 | 6.0 | 15.0 | 0.8 | B | 0.49 | | DFD631U683KDLF0 | DFD2J683K-F2CM | | | |
| | 0.1 | | 14.0 | 6.5 | | | | DFD631U104KDLF0 | | DFD2J104K-F2CM | | | | |
| | 0.15 | | 15.5 | 7.5 | | | | DFD631U154KDLF0 | | DFD2J154K-F2CM | | | | |
| | 0.22 | | 16.5 | 9.0 | | | | DFD631U224KDLF0 | | DFD2J224K-F2CM | | | | |
| | 0.33 | | 17.0 | 8.0 | | | | DFD631U334KELF0 | | DFD2J334K-F2DM | | | | |
| | 0.47 | 26.0 | 18.5 | 9.5 | 22.5 | 0.8 | B | 1.5 | | DFD631U474KELF0 | DFD2J474K-F2DM | | | |
| | 0.68 | | 21.0 | 11.5 | | | | DFD631U684KELF0 | | DFD2J684K-F2DM | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

◆STANDARD RATINGS (LEAD STYLE : STRAIGHT)

| WV (Vdc) | Cap (μF) | Dimensions (mm) | | | | | TYPE | Maximum ripple current (Arms) | WV (Vac) | Part Number | Previous Part Number (Just for your reference) | | | |
|----------|----------|-----------------|------|-----------------|------|-----|------|-------------------------------|----------|------------------|--|--|--|--|
| | | W | H | T | F | φd | | | | | | | | |
| 250 | 0.01 | 10.8 | 7.4 | 4.3 | 7.5 | 0.6 | C | 0.42 | 125 | DFD251U103KBABZ0 | DFD2E103K | | | |
| | 0.015 | | 7.5 | 4.4 | | | | DFD251U153KBABZ0 | | DFD2E153K | | | | |
| | 0.022 | | 7.5 | 4.4 | | | | DFD251U223KBABZ0 | | DFD2E223K | | | | |
| | 0.033 | | 7.5 | 4.5 | | | | DFD251U333KBABZ0 | | DFD2E333K | | | | |
| | 0.047 | | 7.5 | 4.5 | | | | DFD251U473KBABZ0 | | DFD2E473K | | | | |
| | 0.068 | 13.0 | 7.5 | 4.5 | 10.0 | 0.6 | C | 0.45 | | DFD251U683KBABZ0 | DFD2E683K | | | |
| | 0.1 | | 8.4 | 5.8 | | | | DFD251U104KBABZ0 | | DFD2E104K | | | | |
| | 0.15 | | 10.5 | 6.0 | | | | DFD251U154KBABZ0 | | DFD2E154K | | | | |
| | 0.22 | | 10.3 | 5.5 | | | | DFD251U224KACZ0 | | DFD2E224K | | | | |
| | 0.33 | | 12.0 | 6.5 | | | | DFD251U334KACZ0 | | DFD2E334K | | | | |
| | 0.47 | 18.0 | 12.5 | 5.3 | 15.0 | 0.8 | C | 1.1 | | DFD251U474KADZ0 | DFD2E474K | | | |
| | 0.68 | | 15.0 | 7.0 | | | | DFD251U684KADZ0 | | DFD2E684K | | | | |
| | 1.0 | | 15.0 | 7.4 | | | | DFD251U105KADZ0 | | DFD2E105K | | | | |
| | 1.5 | | 17.0 | 9.0 | | | | DFD251U155KADZ0 | | DFD2E155K | | | | |
| 2.2 | 17.0 | | 8.5 | DFD251U225KAEZ0 | | | | DFD2E225K | | | | | | |
| 400 | 0.01 | 10.8 | 7.8 | 4.4 | 7.5 | 0.6 | C | 0.42 | 125 | DFD401U103KBABZ0 | DFD2G103K | | | |
| | 0.015 | | 7.8 | 4.4 | | | | DFD401U153KBABZ0 | | DFD2G153K | | | | |
| | 0.022 | | 7.8 | 4.4 | | | | DFD401U223KBABZ0 | | DFD2G223K | | | | |
| | 0.033 | | 9.0 | 5.5 | | | | DFD401U333KBABZ0 | | DFD2G333K | | | | |
| | 0.047 | | 8.5 | 5.0 | | | | DFD401U473KACZ0 | | DFD2G473K | | | | |
| | 0.068 | 13.0 | 10.5 | 5.5 | 10.0 | 0.6 | C | 0.46 | | DFD401U683KACZ0 | DFD2G683K | | | |
| | 0.1 | | 12.0 | 6.5 | | | | DFD401U104KACZ0 | | DFD2G104K | | | | |
| | 0.15 | | 12.5 | 5.0 | | | | DFD401U154KADZ0 | | DFD2G154K | | | | |
| | 0.22 | | 13.0 | 6.0 | | | | DFD401U224KADZ0 | | DFD2G224K | | | | |
| | 0.33 | | 15.0 | 7.0 | | | | DFD401U334KADZ0 | | DFD2G334K | | | | |
| | 0.47 | 18.0 | 17.0 | 8.0 | 15.0 | 0.8 | C | 1.2 | | DFD401U474KADZ0 | DFD2G474K | | | |
| | 0.68 | | 16.5 | 7.0 | | | | DFD401U684KAEZ0 | | DFD2G684K | | | | |
| | 1.0 | | 18.0 | 8.5 | | | | DFD401U105KAEZ0 | | DFD2G105K | | | | |
| | 1.5 | | 20.0 | 10.5 | | | | DFD401U155KAEZ0 | | DFD2G155K | | | | |
| | | | | | | | | | | | | | | |
| 630 | 0.01 | 13.0 | 7.5 | 4.5 | 10.0 | 0.6 | C | 0.45 | 250 | DFD631U103KACZ0 | DFD2J103K | | | |
| | 0.015 | | 8.0 | 5.0 | | | | DFD631U153KACZ0 | | DFD2J153K | | | | |
| | 0.022 | | 10.5 | 5.5 | | | | DFD631U223KACZ0 | | DFD2J223K | | | | |
| | 0.033 | | 12.0 | 6.0 | | | | DFD631U333KACZ0 | | DFD2J333K | | | | |
| | 0.047 | | 13.5 | 6.5 | | | | DFD631U473KACZ0 | | DFD2J473K | | | | |
| | 0.068 | 18.0 | 11.0 | 6.0 | 15.0 | 0.8 | C | 0.49 | | DFD631U683KADZ0 | DFD2J683K | | | |
| | 0.1 | | 14.0 | 6.5 | | | | DFD631U104KADZ0 | | DFD2J104K | | | | |
| | 0.15 | | 15.5 | 7.5 | | | | DFD631U154KADZ0 | | DFD2J154K | | | | |
| | 0.22 | | 16.5 | 9.0 | | | | DFD631U224KADZ0 | | DFD2J224K | | | | |
| | 0.33 | | 17.0 | 8.0 | | | | DFD631U334KAEZ0 | | DFD2J334K | | | | |
| | 0.47 | 26.0 | 18.5 | 9.5 | 22.5 | 0.8 | C | 1.5 | | DFD631U474KAEZ0 | DFD2J474K | | | |
| | 0.68 | | 21.0 | 11.5 | | | | DFD631U684KAEZ0 | | DFD2J684K | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

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

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

◆DIMENSIONS (mm)

