



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 (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	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	8.4	5.8	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	0.8	B	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	12.0	6.5	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

◆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				0.45		DFD631U153KCFM0	DFD2J153K-F7CM
	0.022		10.5	5.5				0.45		DFD631U223KCFM0	DFD2J223K-F7CM
	0.033		12.0	6.0				0.45		DFD631U333KCFM0	DFD2J333K-F7CM
	0.047		13.5	6.5				0.45		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				0.53		DFD631U104KDLF0	DFD2J104K-F2CM
	0.15		15.5	7.5				0.67		DFD631U154KDLF0	DFD2J154K-F2CM
	0.22		16.5	9.0				0.81		DFD631U224KDLF0	DFD2J224K-F2CM
	0.33		17.0	8.0				1.1		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				2.1		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				0.43		DFD251U153KBABZ0	DFD2E153K
	0.022		7.5	4.4				0.43		DFD251U223KBABZ0	DFD2E223K
	0.033		7.5	4.5				0.43		DFD251U333KBABZ0	DFD2E333K
	0.047		7.5	4.5				0.43		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				0.46		DFD251U104KBABZ0	DFD2E104K
	0.15		10.5	6.0				0.62		DFD251U154KBABZ0	DFD2E154K
	0.22		10.3	5.5				0.78		DFD251U224KACZ0	DFD2E224K
	0.33		12.0	6.5				0.94		DFD251U334KACZ0	DFD2E334K
	0.47	18.0	12.5	5.3	15.0	0.8	C	1.1		DFD251U474KDADZ0	DFD2E474K
	0.68		15.0	7.0				1.4		DFD251U684KDADZ0	DFD2E684K
	1.0		15.0	7.4				1.8		DFD251U105KDADZ0	DFD2E105K
	1.5		17.0	9.0				2.2		DFD251U155KDADZ0	DFD2E155K
2.2	17.0		8.5	2.7				DFD251U225KEAEZ0	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				0.43		DFD401U153KBABZ0	DFD2G153K
	0.022		7.8	4.4				0.43		DFD401U223KBABZ0	DFD2G223K
	0.033		9.0	5.5				0.43		DFD401U333KBABZ0	DFD2G333K
	0.047		8.5	5.0				0.43		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				0.48		DFD401U104KACZ0	DFD2G104K
	0.15		12.5	5.0				0.67		DFD401U154KDADZ0	DFD2G154K
	0.22		13.0	6.0				0.86		DFD401U224KDADZ0	DFD2G224K
	0.33		15.0	7.0				1.0		DFD401U334KDADZ0	DFD2G334K
	0.47	18.0	17.0	8.0	15.0	0.8	C	1.2		DFD401U474KDADZ0	DFD2G474K
	0.68		16.5	7.0				1.7		DFD401U684KEAEZ0	DFD2G684K
	1.0		18.0	8.5				2.2		DFD401U105KEAEZ0	DFD2G105K
	1.5		20.0	10.5				2.9		DFD401U155KEAEZ0	DFD2G155K
630	0.01		13.0	7.5				4.5	10.0	0.6	C
	0.015	8.0		5.0	0.45	DFD631U153KACZ0	DFD2J153K				
	0.022	10.5		5.5	0.45	DFD631U223KACZ0	DFD2J223K				
	0.033	12.0		6.0	0.45	DFD631U333KACZ0	DFD2J333K				
	0.047	13.5		6.5	0.45	DFD631U473KACZ0	DFD2J473K				
	0.068	18.0	11.0	6.0	15.0	0.8	C	0.49	DFD631U683KDADZ0	DFD2J683K	
	0.1		14.0	6.5				0.53	DFD631U104KDADZ0	DFD2J104K	
	0.15		15.5	7.5				0.67	DFD631U154KDADZ0	DFD2J154K	
	0.22		16.5	9.0				0.81	DFD631U224KDADZ0	DFD2J224K	
	0.33		17.0	8.0				1.1	DFD631U334KEAEZ0	DFD2J334K	
	0.47	26.0	18.5	9.5	22.5	0.8	C	1.5	DFD631U474KEAEZ0	DFD2J474K	
	0.68		21.0	11.5				2.1	DFD631U684KEAEZ0	DFD2J684K	

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

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

◆DIMENSIONS (mm)

