



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.			
	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.			
	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



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◆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	26.0	17.0	8.0	22.5	0.8	C	1.1		DFD631U334KELF0	DFD2J334K-F2DM	
	0.47		18.5	9.5				DFD631U474KELF0		DFD2J474K-F2DM		
	0.68		21.0	11.5				DFD631U684KELF0		DFD2J684K-F2DM		
										2.1		

◆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	18.0	12.0	6.5	15.0	0.8	C	0.94		DFD251U334KACZ0	DFD2E334K	
	0.47		12.5	5.3				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	26.0	17.0	8.5	22.5	0.8	C	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				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	18.0	15.0	7.0	15.0	0.8	C	1.0		DFD401U334KADZ0	DFD2G334K	
	0.47		17.0	8.0				DFD401U474KADZ0		DFD2G474K		
	0.68		16.5	7.0				DFD401U684KEAEZ0		DFD2G684K		
	1.0		18.0	8.5				DFD401U105KEAEZ0		DFD2G105K		
	1.5		20.0	10.5				DFD401U155KEAEZ0		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	0.6	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	26.0	17.0	8.0	22.5	0.8	C	1.1		DFD631U334KEAEZ0	DFD2J334K	
	0.47		18.5	9.5				DFD631U474KEAEZ0		DFD2J474K		
	0.68		21.0	11.5				DFD631U684KEAEZ0		DFD2J684K		
										2.1		

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

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

◆DIMENSIONS (mm)

