



- 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	DFDD2E103K-F7BM			
	0.015		7.5	4.4				DFD251U153KBFBM0		DFDD2E153K-F7BM				
	0.022		7.5	4.4				DFD251U223KBFBM0		DFDD2E223K-F7BM				
	0.033		7.5	4.5				DFD251U333KBFBM0		DFDD2E333K-F7BM				
	0.047		7.5	4.5				DFD251U473KBFBM0		DFDD2E473K-F7BM				
	0.068		7.5	4.5				DFD251U683KBFBM0		DFDD2E683K-F7BM				
	0.1		8.4	5.8				DFD251U104KBFBM0		DFDD2E104K-F7BM				
	0.15	10.5	6.0	DFD251U154KBFBM0	DFDD2E154K-F7BM									
	0.22	13.0	10.3	5.5	DFD251U224KCFBM0	DFDD2E224K-F7CM								
	0.33		12.0	6.5	DFD251U334KCFBM0	DFDD2E334K-F7CM								
	0.47		12.5	5.3	DFD251U474KDLBM0	DFDD2E474K-F2CM								
	0.68	18.0	15.0	7.0	10.0	0.8	B	1.4		DFD251U684KDLBM0	DFDD2E684K-F2CM			
	1.0		15.0	7.4				DFD251U105KDLBM0		DFDD2E105K-F2CM				
	1.5		17.0	9.0				DFD251U155KDLBM0		DFDD2E155K-F2CM				
2.2	17.0		8.5	15.0				DFD251U225KELDM0	DFDD2E225K-F2DM					
400	0.01	10.8	7.8	4.4	7.5	0.6	A	0.42	125	DFD401U103KBFBM0	DFDD2G103K-F7BM			
	0.015		7.8	4.4				DFD401U153KBFBM0		DFDD2G153K-F7BM				
	0.022		7.8	4.4				DFD401U223KBFBM0		DFDD2G223K-F7BM				
	0.033		9.0	5.5				DFD401U333KBFBM0		DFDD2G333K-F7BM				
	0.047		8.5	5.0				DFD401U473KCFBM0		DFDD2G473K-F7CM				
	0.068		10.5	5.5				DFD401U683KCFBM0		DFDD2G683K-F7CM				
	0.1	12.0	6.5	DFD401U104KCFBM0	DFDD2G104K-F7CM									
	0.15	13.0	12.5	5.0	10.0	0.6	A	0.67		DFD401U154KDLBM0	DFDD2G154K-F2CM			
	0.22		13.0	6.0				DFD401U224KDLBM0		DFDD2G224K-F2CM				
	0.33		15.0	7.0				DFD401U334KDLBM0		DFDD2G334K-F2CM				
	0.47	18.0	17.0	8.0	15.0	0.8	B	1.2		DFD401U474KDLBM0	DFDD2G474K-F2CM			
	0.68		16.5	7.0				DFD401U684KELDM0		DFDD2G684K-F2DM				
	1.0		18.0	8.5				DFD401U105KELDM0		DFDD2G105K-F2DM				
	1.5		20.0	10.5				DFD401U155KELDM0		DFDD2G155K-F2DM				
													1.0	
													1.2	
								1.7						
								2.2						
							2.2							
							2.9							

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

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

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	DFDD2J103K-F7CM
	0.015		8.0	5.0				0.45		DFD631U153KCFM0	DFDD2J153K-F7CM
	0.022		10.5	5.5				0.45		DFD631U223KCFM0	DFDD2J223K-F7CM
	0.033		12.0	6.0				0.45		DFD631U333KCFM0	DFDD2J333K-F7CM
	0.047		13.5	6.5				0.45		DFD631U473KCFM0	DFDD2J473K-F7CM
	0.068	18.0	11.0	6.0	15.0	0.8	B	0.49		DFD631U683KDL00	DFDD2J683K-F2CM
	0.1		14.0	6.5				0.53		DFD631U104KDL00	DFDD2J104K-F2CM
	0.15		15.5	7.5				0.67		DFD631U154KDL00	DFDD2J154K-F2CM
	0.22		16.5	9.0				0.81		DFD631U224KDL00	DFDD2J224K-F2CM
	0.33		17.0	8.0				1.1		DFD631U334KEL00	DFDD2J334K-F2DM
	0.47	26.0	18.5	9.5	22.5	0.8	B	1.5		DFD631U474KEL00	DFDD2J474K-F2DM
	0.68		21.0	11.5				2.1		DFD631U684KEL00	DFDD2J684K-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	DFDD2E103K
	0.015		7.5	4.4				0.43		DFD251U153KBABZ0	DFDD2E153K
	0.022		7.5	4.4				0.43		DFD251U223KBABZ0	DFDD2E223K
	0.033		7.5	4.5				0.43		DFD251U333KBABZ0	DFDD2E333K
	0.047		7.5	4.5				0.43		DFD251U473KBABZ0	DFDD2E473K
	0.068	13.0	7.5	4.5	10.0	0.6	C	0.45		DFD251U683KBABZ0	DFDD2E683K
	0.1		8.4	5.8				0.46		DFD251U104KBABZ0	DFDD2E104K
	0.15		10.5	6.0				0.62		DFD251U154KBABZ0	DFDD2E154K
	0.22		10.3	5.5				0.78		DFD251U224KACZ0	DFDD2E224K
	0.33		12.0	6.5				0.94		DFD251U334KACZ0	DFDD2E334K
	0.47	18.0	12.5	5.3	15.0	0.8	C	1.1		DFD251U474KDADZ0	DFDD2E474K
	0.68		15.0	7.0				1.4		DFD251U684KDADZ0	DFDD2E684K
	1.0		15.0	7.4				1.8		DFD251U105KDADZ0	DFDD2E105K
	1.5		17.0	9.0				2.2		DFD251U155KDADZ0	DFDD2E155K
	2.2		26.0	17.0				8.5		22.5	2.7
400	0.01	10.8	7.8	4.4	7.5	0.6	C	0.42	125	DFD401U103KBABZ0	DFDD2G103K
	0.015		7.8	4.4				0.43		DFD401U153KBABZ0	DFDD2G153K
	0.022		7.8	4.4				0.43		DFD401U223KBABZ0	DFDD2G223K
	0.033		9.0	5.5				0.43		DFD401U333KBABZ0	DFDD2G333K
	0.047		8.5	5.0				0.43		DFD401U473KACZ0	DFDD2G473K
	0.068	13.0	10.5	5.5	10.0	0.6	C	0.46		DFD401U683KACZ0	DFDD2G683K
	0.1		12.0	6.5				0.48		DFD401U104KACZ0	DFDD2G104K
	0.15		12.5	5.0				0.67		DFD401U154KDADZ0	DFDD2G154K
	0.22		13.0	6.0				0.86		DFD401U224KDADZ0	DFDD2G224K
	0.33		15.0	7.0				1.0		DFD401U334KDADZ0	DFDD2G334K
	0.47	18.0	17.0	8.0	15.0	0.8	C	1.2		DFD401U474KDADZ0	DFDD2G474K
	0.68		16.5	7.0				1.7		DFD401U684KAEZ0	DFDD2G684K
	1.0		18.0	8.5				2.2		DFD401U105KAEZ0	DFDD2G105K
	1.5		20.0	10.5				2.9		DFD401U155KAEZ0	DFDD2G155K
	2.2		26.0	17.0				8.5		22.5	2.9
630	0.01	13.0	7.5	4.5	10.0	0.6	C	0.45	250	DFD631U103KACZ0	DFDD2J103K
	0.015		8.0	5.0				0.45		DFD631U153KACZ0	DFDD2J153K
	0.022		10.5	5.5				0.45		DFD631U223KACZ0	DFDD2J223K
	0.033		12.0	6.0				0.45		DFD631U333KACZ0	DFDD2J333K
	0.047		13.5	6.5				0.45		DFD631U473KACZ0	DFDD2J473K
	0.068	18.0	11.0	6.0	15.0	0.8	C	0.49		DFD631U683KDADZ0	DFDD2J683K
	0.1		14.0	6.5				0.53		DFD631U104KDADZ0	DFDD2J104K
	0.15		15.5	7.5				0.67		DFD631U154KDADZ0	DFDD2J154K
	0.22		16.5	9.0				0.81		DFD631U224KDADZ0	DFDD2J224K
	0.33		17.0	8.0				1.1		DFD631U334KAEZ0	DFDD2J334K
	0.47	26.0	18.5	9.5	22.5	0.8	C	1.5		DFD631U474KAEZ0	DFDD2J474K
	0.68		21.0	11.5				2.1		DFD631U684KAEZ0	DFDD2J684K

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

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

◆ **DIMENSIONS (mm)**

