NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

DFDD Series

RoHS Compliant

- 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℃				
Rated voltage range	250 to 630Vdc				
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 (Vdc)	250	400	630	
	Measurement voltage (Vdc)	100	100	500	
Endurance	The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 85℃.				
	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℃ 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 (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	F	φd	TYPE	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
250	0.01	10.8	7.4	4.3	7.5	0.6	A	0.42	125	FDFDD251U103KBFBM0	DFDD2E103K-F7BM
	0.015		7.5	4.4				0.43		FDFDD251U153KBFBM0	DFDD2E153K-F7BM
	0.022		7.5	4.4				0.43		FDFDD251U223KBFBM0	DFDD2E223K-F7BM
	0.033		7.5	4.5				0.43		FDFDD251U333KBFBM0	DFDD2E333K-F7BM
	0.047		7.5	4.5				0.43		FDFDD251U473KBFBM0	DFDD2E473K-F7BM
	0.068		7.5	4.5				0.45		FDFDD251U683KBFBM0	DFDD2E683K-F7BM
	0.1		8.4	5.8				0.46		FDFDD251U104KBFBM0	DFDD2E104K-F7BM
	0.15		10.5	6.0				0.62		FDFDD251U154KBFBM0	DFDD2E154K-F7BM
	0.22	13.0	10.3	5.5	10.0			0.78		FDFDD251U224KCFCM0	DFDD2E224K-F7CM
	0.33		12.0	6.5				0.94		FDFDD251U334KCFCM0	DFDD2E334K-F7CM
	0.47	18.0	12.5	5.3			B	1.1		FDFDD251U474KDLCM0	DFDD2E474K-F2CM
	0.68		15.0	7.0		0.8		1.4		FDFDD251U684KDLCM0	DFDD2E684K-F2CM
	1.0		15.0	7.4				1.8		FDFDD251U105KDLCM0	DFDD2E105K-F2CM
	1.5		17.0	9.0				2.2		FDFDD251U155KDLCM0	DFDD2E155K-F2CM
	2.2	26.0	17.0	8.5	15.0			2.7		FDFDD251U225KELDM0	DFDD2E225K-F2DM
400	0.01	10.8	7.8	4.4	7.5	0.6	A	0.42	125	FDFDD401U103KBFBM0	DFDD2G103K-F7BM
	0.015		7.8	4.4				0.43		FDFDD401U153KBFBM0	DFDD2G153K-F7BM
	0.022		7.8	4.4				0.43		FDFDD401U223KBFBM0	DFDD2G223K-F7BM
	0.033		9.0	5.5				0.43		FDFDD401U333KBFBM0	DFDD2G333K-F7BM
	0.047	13.0	8.5	5.0	10.0			0.43		FDFDD401U473KCFCM0	DFDD2G473K-F7CM
	0.068		10.5	5.5				0.46		FDFDD401U683KCFCM0	DFDD2G683K-F7CM
	0.1		12.0	6.5				0.48		FDFDD401U104KCFCM0	DFDD2G104K-F7CM
	0.15	18.0	12.5	5.0			B	0.67		FDFDD401U154KDLCM0	DFDD2G154K-F2CM
	0.22		13.0	6.0				0.86		FDFDD401U224KDLCM0	DFDD2G224K-F2CM
	0.33		15.0	7.0		0.8		1.0		FDFDD401U334KDLCM0	DFDD2G334K-F2CM
	0.47		17.0	8.0				1.2		FDFDD401U474KDLCM0	DFDD2G474K-F2CM
	0.68	26.0	16.5	7.0	15.0			1.7		FDFDD401U684KELDM0	DFDD2G684K-F2DM
	1.0		18.0	8.5				2.2		FDFDD401U105KELDM0	DFDD2G105K-F2DM
	1.5		20.0	10.5				2.9		FDFDD401U155KELDM0	DFDD2G155K-F2DM

(1)The maximum ripple current : +85℃ max., 100kHz, sine wave
(2)WV(Vac) : 50Hz or 60Hz, sine wave

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CAT. No. E1003N

ELECTRONIC EQUIPMENT FILM CAPACITOR

DFDD Series

◆STANDARD RATINGS (LEAD STYLE : FORMING)

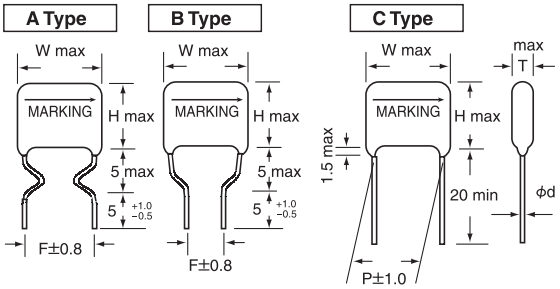
WV (Vdc)	Cap (μF)	Dimensions (mm)					TYPE	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
		W	H	T	F	φd					
630	0.01	13.0	7.5	4.5	10.0	0.6	A	0.45	250	FDFDD631U103KCFCM0	DFDD2J103K-F7CM
	0.015		8.0	5.0				0.45		FDFDD631U153KCFCM0	DFDD2J153K-F7CM
	0.022		10.5	5.5				0.45		FDFDD631U223KCFCM0	DFDD2J223K-F7CM
	0.033		12.0	6.0				0.45		FDFDD631U333KCFCM0	DFDD2J333K-F7CM
	0.047		13.5	6.5				0.45		FDFDD631U473KCFCM0	DFDD2J473K-F7CM
	0.068	18.0	11.0	6.0			B	0.49		FDFDD631U683KDLCM0	DFDD2J683K-F2CM
	0.1		14.0	6.5				0.53		FDFDD631U104KDLCM0	DFDD2J104K-F2CM
	0.15		15.5	7.5		0.8		0.67		FDFDD631U154KDLCM0	DFDD2J154K-F2CM
	0.22		16.5	9.0				0.81		FDFDD631U224KDLCM0	DFDD2J224K-F2CM
	0.33	26.0	17.0	8.0	15.0			1.1		FDFDD631U334KELDM0	DFDD2J334K-F2DM
	0.47		18.5	9.5				1.5		FDFDD631U474KELDM0	DFDD2J474K-F2DM
	0.68		21.0	11.5				2.1		FDFDD631U684KELDM0	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	FDFDD251U103KBABZ0	DFDD2E103K
	0.015		7.5	4.4				0.43		FDFDD251U153KBABZ0	DFDD2E153K
	0.022		7.5	4.4				0.43		FDFDD251U223KBABZ0	DFDD2E223K
	0.033		7.5	4.5				0.43		FDFDD251U333KBABZ0	DFDD2E333K
	0.047		7.5	4.5				0.43		FDFDD251U473KBABZ0	DFDD2E473K
	0.068		7.5	4.5				0.45		FDFDD251U683KBABZ0	DFDD2E683K
	0.1		8.4	5.8				0.46		FDFDD251U104KBABZ0	DFDD2E104K
	0.15		10.5	6.0				0.62		FDFDD251U154KBABZ0	DFDD2E154K
	0.22	13.0	10.3	5.5	10.0			0.78		FDFDD251U224KCACZ0	DFDD2E224K
	0.33		12.0	6.5				0.94		FDFDD251U334KCACZ0	DFDD2E334K
	0.47	18.0	12.5	5.3	15.0			1.1		FDFDD251U474KDADZ0	DFDD2E474K
	0.68		15.0	7.0		0.8		1.4		FDFDD251U684KDADZ0	DFDD2E684K
	1.0		15.0	7.4				1.8		FDFDD251U105KDADZ0	DFDD2E105K
	1.5		17.0	9.0				2.2		FDFDD251U155KDADZ0	DFDD2E155K
	2.2	26.0	17.0	8.5	22.5			2.7		FDFDD251U225KEAEZ0	DFDD2E225K
400	0.01	10.8	7.8	4.4	7.5	0.6	C	0.42	125	FDFDD401U103KBABZ0	DFDD2G103K
	0.015		7.8	4.4				0.43		FDFDD401U153KBABZ0	DFDD2G153K
	0.022		7.8	4.4				0.43		FDFDD401U223KBABZ0	DFDD2G223K
	0.033		9.0	5.5				0.43		FDFDD401U333KBABZ0	DFDD2G333K
	0.047	13.0	8.5	5.0	10.0			0.43		FDFDD401U473KCACZ0	DFDD2G473K
	0.068		10.5	5.5				0.46		FDFDD401U683KCACZ0	DFDD2G683K
	0.1		12.0	6.5				0.48		FDFDD401U104KCACZ0	DFDD2G104K
	0.15	18.0	12.5	5.0	15.0			0.67		FDFDD401U154KDADZ0	DFDD2G154K
	0.22		13.0	6.0				0.86		FDFDD401U224KDADZ0	DFDD2G224K
	0.33		15.0	7.0		0.8		1.0		FDFDD401U334KDADZ0	DFDD2G334K
	0.47		17.0	8.0				1.2		FDFDD401U474KDADZ0	DFDD2G474K
	0.68	26.0	16.5	7.0	22.5			1.7		FDFDD401U684KEAEZ0	DFDD2G684K
	1.0		18.0	8.5				2.2		FDFDD401U105KEAEZ0	DFDD2G105K
	1.5		20.0	10.5				2.9		FDFDD401U155KEAEZ0	DFDD2G155K
630	0.01	13.0	7.5	4.5	10.0	0.6	C	0.45	250	FDFDD631U103KCACZ0	DFDD2J103K
	0.015		8.0	5.0				0.45		FDFDD631U153KCACZ0	DFDD2J153K
	0.022		10.5	5.5				0.45		FDFDD631U223KCACZ0	DFDD2J223K
	0.033		12.0	6.0				0.45		FDFDD631U333KCACZ0	DFDD2J333K
	0.047		13.5	6.5				0.45		FDFDD631U473KCACZ0	DFDD2J473K
	0.068	18.0	11.0	6.0	15.0			0.49		FDFDD631U683KDADZ0	DFDD2J683K
	0.1		14.0	6.5				0.53		FDFDD631U104KDADZ0	DFDD2J104K
	0.15		15.5	7.5		0.8		0.67		FDFDD631U154KDADZ0	DFDD2J154K
	0.22		16.5	9.0				0.81		FDFDD631U224KDADZ0	DFDD2J224K
	0.33	26.0	17.0	8.0	22.5			1.1		FDFDD631U334KEAEZ0	DFDD2J334K
	0.47		18.5	9.5				1.5		FDFDD631U474KEAEZ0	DFDD2J474K
	0.68		21.0	11.5				2.1		FDFDD631U684KEAEZ0	DFDD2J684K

(1)The maximum ripple current : +85℃ max., 100kHz, sine wave
(2)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)



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