



ELECTRONIC EQUIPMENT FILM CAPACITOR

DTD-Z Series

- Maximum operating temperature 105°C.
- Stacked type.
- Very small type.



◆ SPECIFICATIONS

Items	Characteristics						
Category temperature range	-40 to +105℃						
Rated voltage range	35 to 250V _{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)	Not more than 1.0% at 1kHz.						
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})	35	50	100	160	250	
	Measurement voltage (V _{ac})	10	50	100	100	100	
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 3000MΩ : Equal or less than 0.33μF.				
			No less than 1000ΩF : More than 0.33μF.				
	Dissipation factor (tanδ)		Not more than 1.1% at 1kHz.				
	Capacitance change		Within ±7% 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 3000MΩ : Equal or less than 0.33μF.				
			No less than 1000ΩF : More than 0.33μF.				
	Dissipation factor (tanδ)		Not more than 1.1% at 1kHz.				
	Capacitance change		Within ±10% of initial value.				

◆ STANDARD RATINGS

WV (V _{dc})	Cap (μF)	Dimensions (mm)					Maximum ripple current (Arms)	WV (V _{ac})	Part Number	Previous Part Number (Just for your reference)
		W	H	T	P	φd				
35	3.3	16.0	10.0	6.7	12.5	0.8	2.5	14	FDTDZ350V335KGAGZ0	DTDG1V335KZ
	4.7		12.5	7.2			3.1		FDTDZ350V475KGAGZ0	DTDG1V475KZ
	6.8		15.0	9.1			3.8		FDTDZ350V685KGAGZ0	DTDG1V685KZ
	10		15.0	9.5			4.1		FDTDZ350V106KGAGZ0	DTDG1V106KZ
	15		20.0	11.1			4.5		FDTDZ350V156KGAGZ0	DTDG1V156KZ
	20		20.0	13.0			5.0		FDTDZ350V206KGAGZ0	DTDG1V206KZ
50	0.1	7.5	5.0	4.4	5.0	0.5	0.19	16	FDTDZ500U104KAAAZ0	DTDA1H104KZ
	0.15		7.0	4.3			0.26		FDTDZ500U154KAAAZ0	DTDA1H154KZ
	0.22		10.0	4.2			0.33		FDTDZ500U224KAAAZ0	DTDA1H224KZ
	0.33		10.0	4.9			0.40		FDTDZ500U334KAAAZ0	DTDA1H334KZ
	0.47		12.5	5.8			0.57		FDTDZ500U474KAAAZ0	DTDA1H474KZ
	0.68		12.5	6.5			0.73		FDTDZ500U684KAAAZ0	DTDA1H684KZ
	1.0		12.5	7.7			0.90		FDTDZ500U105KAAAZ0	DTDA1H105KZ
	0.33	10.5	7.0	4.3	7.5	0.5	0.40	16	FDTDZ500U334KBABZ0	DTDB1H334KZ
	0.47		10.0	4.1			0.57		FDTDZ500U474KBABZ0	DTDB1H474KZ
	0.68		10.0	5.0			0.73		FDTDZ500U684KBABZ0	DTDB1H684KZ
	1.0		12.5	6.2			0.90		FDTDZ500U105KBABZ0	DTDB1H105KZ
	1.5		12.5	6.6			1.2		FDTDZ500U155KBABZ0	DTDB1H155KZ
	2.2		15.0	8.8			1.6		FDTDZ500U225KBABZ0	DTDB1H225KZ
	3.3		15.0	9.9			1.9		FDTDZ500U335KBABZ0	DTDB1H335KZ
	0.47	12.5	7.0	4.4	10.0	0.6	0.57	16	FDTDZ500U474KACZ0	DTDC1H474KZ
	0.68		10.0	4.2			0.73		FDTDZ500U684KACZ0	DTDC1H684KZ
	1.0		10.0	5.1			0.90		FDTDZ500U105KACZ0	DTDC1H105KZ
	1.5		12.5	6.2			1.2		FDTDZ500U155KACZ0	DTDC1H155KZ
	2.2		12.5	6.7			1.6		FDTDZ500U225KACZ0	DTDC1H225KZ
	3.3		15.0	8.8			1.9		FDTDZ500U335KACZ0	DTDC1H335KZ
	4.7		15.0	10.2			2.2		FDTDZ500U475KACZ0	DTDC1H475KZ
	6.8		20.0	10.6			3.1		FDTDZ500U685KACZ0	DTDC1H685KZ
	0.68	17.5	10.0	4.0	15.0	0.6	0.73	16	FDTDZ500U684KDADZ0	DTDD1H684KZ
	1.0		10.0	4.2			0.90		FDTDZ500U105KDADZ0	DTDD1H105KZ
	1.5		12.5	4.9			1.2		FDTDZ500U155KDADZ0	DTDD1H155KZ
	2.2		12.5	5.8			1.6		FDTDZ500U225KDADZ0	DTDD1H225KZ
	3.3		15.0	6.4			1.9		FDTDZ500U335KDADZ0	DTDD1H335KZ
	4.7		15.0	6.9			2.2		FDTDZ500U475KDADZ0	DTDD1H475KZ
	6.8		20.0	9.3			3.1		FDTDZ500U685KDADZ0	DTDD1H685KZ
	10		20.0	10.0			4.1		FDTDZ500U106KDADZ0	DTDD1H106KZ

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

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

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Dimensions (mm)					Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
		W	H	T	P	φd				
50	4.7	25.0	12.5	5.8	22.5	0.8	2.2	16	FDTDZ500U475KEAEZ0	DTDE1H475KZ
	6.8			7.5			3.1		FDTDZ500U685KEAEZ0	DTDE1H685KZ
	10			8.8			4.1		FDTDZ500U106KEAEZ0	DTDE1H106KZ
	15		20.0	9.1			5.0		FDTDZ500U156KEAEZ0	DTDE1H156KZ
	22			11.9			5.0		FDTDZ500U226KEAEZ0	DTDE1H226KZ
100	0.033	7.5	5.0	4.0	5.0	0.5	0.10	44	FDTDZ101U333KAAAZ0	DTDA2A333KZ
	0.047			4.0			0.13		FDTDZ101U473KAAAZ0	DTDA2A473KZ
	0.068			4.1			0.15		FDTDZ101U683KAAAZ0	DTDA2A683KZ
	0.1		7.0	4.6			0.22		FDTDZ101U104KAAAZ0	DTDA2A104KZ
	0.15			5.2			0.29		FDTDZ101U154KAAAZ0	DTDA2A154KZ
	0.22			5.1			0.39		FDTDZ101U224KAAAZ0	DTDA2A224KZ
	0.33		10.0	6.3		0.6	0.50		FDTDZ101U334KAAAZ0	DTDA2A334KZ
	0.47			7.8			0.60		FDTDZ101U474KAAAZ0	DTDA2A474KZ
	0.68			8.4			0.75		FDTDZ101U684KAAAZ0	DTDA2A684KZ
	0.1	10.5	7.0	4.0		0.5	0.22	44	FDTDZ101U104KBABZ0	DTDB2A104KZ
	0.15			4.0			0.29		FDTDZ101U154KBABZ0	DTDB2A154KZ
	0.22			4.6			0.39		FDTDZ101U224KBABZ0	DTDB2A224KZ
	0.33		10.0	4.6		0.6	0.50		FDTDZ101U334KBABZ0	DTDB2A334KZ
	0.47			5.5			0.60		FDTDZ101U474KBABZ0	DTDB2A474KZ
	0.68			6.7			0.75		FDTDZ101U684KBABZ0	DTDB2A684KZ
	1.0		12.5	7.4			0.90		FDTDZ101U105KBABZ0	DTDB2A105KZ
	1.5			9.7			1.2		FDTDZ101U155KBABZ0	DTDB2A155KZ
	2.2			10.1			1.6		FDTDZ101U225KBABZ0	DTDB2A225KZ
	0.15	12.5	7.0	4.1		0.6	0.29	44	FDTDZ101U154KACZ0	DTDC2A154KZ
	0.22			4.1			0.39		FDTDZ101U224KACZ0	DTDC2A224KZ
	0.33			4.7			0.50		FDTDZ101U334KACZ0	DTDC2A334KZ
	0.47		10.0	4.6			0.60		FDTDZ101U474KACZ0	DTDC2A474KZ
	0.68			5.5			0.75		FDTDZ101U684KACZ0	DTDC2A684KZ
	1.0			6.8			0.90		FDTDZ101U105KACZ0	DTDC2A105KZ
	1.5		12.5	7.5			1.2		FDTDZ101U155KACZ0	DTDC2A155KZ
	2.2			9.8			1.6		FDTDZ101U225KACZ0	DTDC2A225KZ
	3.3			11.5			1.9		FDTDZ101U335KACZ0	DTDC2A335KZ
	4.7	17.5	10.0	11.8		0.6	2.2		FDTDZ101U475KACZ0	DTDC2A475KZ
	0.47			4.2			0.60		FDTDZ101U474KDADZ0	DTDD2A474KZ
	0.68			4.2			0.75		FDTDZ101U684KDADZ0	DTDD2A684KZ
	1.0		12.5	5.0			0.90		FDTDZ101U105KDADZ0	DTDD2A105KZ
	1.5			6.2			1.2		FDTDZ101U155KDADZ0	DTDD2A155KZ
	2.2			7.9			1.6		FDTDZ101U225KDADZ0	DTDD2A225KZ
	3.3		15.0	8.7			1.9		FDTDZ101U335KDADZ0	DTDD2A335KZ
	4.7			9.7			2.2		FDTDZ101U475KDADZ0	DTDD2A475KZ
	6.8			10.1			3.1		FDTDZ101U685KDADZ0	DTDD2A685KZ
	3.3	25.0	12.5	6.4	22.5	0.8	1.9	44	FDTDZ101U335KEAEZ0	DTDE2A335KZ
	4.7			8.0			2.2		FDTDZ101U475KEAEZ0	DTDE2A475KZ
	6.8			9.0			3.1		FDTDZ101U685KEAEZ0	DTDE2A685KZ
	10		20.0	9.5			3.9		FDTDZ101U106KEAEZ0	DTDE2A106KZ
	15			12.9			4.8		FDTDZ101U156KEAEZ0	DTDE2A156KZ
160	0.022	7.5	5.0	4.0	5.0	0.5	0.11	63	FDTDZ161U223KAAAZ0	DTDA2C223KZ
	0.033			4.0			0.13		FDTDZ161U333KAAAZ0	DTDA2C333KZ
	0.047			4.3			0.17		FDTDZ161U473KAAAZ0	DTDA2C473KZ
	0.068		7.0	4.5			0.21		FDTDZ161U683KAAAZ0	DTDA2C683KZ
	0.1			5.5			0.25		FDTDZ161U104KAAAZ0	DTDA2C104KZ
	0.15			5.4			0.36		FDTDZ161U154KAAAZ0	DTDA2C154KZ
	0.22		10.0	6.7		0.6	0.48		FDTDZ161U224KAAAZ0	DTDA2C224KZ
	0.33			7.4			0.59		FDTDZ161U334KAAAZ0	DTDA2C334KZ
	0.47			9.5			0.70		FDTDZ161U474KAAAZ0	DTDA2C474KZ

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

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



ELECTRONIC EQUIPMENT FILM CAPACITOR

DTD-Z Series

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Dimensions (mm)					Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)			
		W	H	T	P	ϕd							
160	0.047	10.5	7.0	4.0	7.5	0.5	0.17	63	FDTDZ161U473KBABZ0	DTDB2C473KZ			
	0.068			4.2			0.21		FDTDZ161U683KBABZ0	DTDB2C683KZ			
	0.1			4.2			0.25		FDTDZ161U104KBABZ0	DTDB2C104KZ			
	0.15			5.0			0.36		FDTDZ161U154KBABZ0	DTDB2C154KZ			
	0.22			4.5			0.48		FDTDZ161U224KBABZ0	DTDB2C224KZ			
	0.33		10.0	6.1		0.6	0.59		FDTDZ161U334KBABZ0	DTDB2C334KZ			
	0.47			7.5			0.70		FDTDZ161U474KBABZ0	DTDB2C474KZ			
	0.68			8.0			1.0		FDTDZ161U684KBABZ0	DTDB2C684KZ			
	1.0			9.1			1.2		FDTDZ161U105KBABZ0	DTDB2C105KZ			
	0.068			4.0			0.21		FDTDZ161U683KCACZ0	DTDC2C683KZ			
	0.1	7.0	4.2	0.6	0.25	FDTDZ161U104KCACZ0	DTDC2C104KZ						
	0.15		4.3		0.36	FDTDZ161U154KCACZ0	DTDC2C154KZ						
	0.22		4.2		0.48	FDTDZ161U224KCACZ0	DTDC2C224KZ						
	0.33		10.0		5.0	0.59	FDTDZ161U334KCACZ0	DTDC2C334KZ					
	0.47				6.0	0.70	FDTDZ161U474KCACZ0	DTDC2C474KZ					
	0.68	7.5			1.0	FDTDZ161U684KCACZ0	DTDC2C684KZ						
	1.0	8.2			1.2	FDTDZ161U105KCACZ0	DTDC2C105KZ						
	1.5	9.5			1.9	FDTDZ161U155KCACZ0	DTDC2C155KZ						
	2.2	20.0	9.9		2.6	FDTDZ161U225KCACZ0	DTDC2C225KZ						
	0.22	17.5	10.0		4.2	15.0	0.6	0.48	63	FDTDZ161U224KDADZ0	DTDD2C224KZ		
	0.33			4.5	0.59			FDTDZ161U334KDADZ0		DTDD2C334KZ			
	0.47			4.5	0.70			FDTDZ161U474KDADZ0		DTDD2C474KZ			
	0.68			5.4	1.0			FDTDZ161U684KDADZ0		DTDD2C684KZ			
	1.0			6.7	1.2			FDTDZ161U105KDADZ0		DTDD2C105KZ			
	1.5		12.5	7.4	0.6			1.9		FDTDZ161U155KDADZ0	DTDD2C155KZ		
	2.2			9.6				2.6		FDTDZ161U225KDADZ0	DTDD2C225KZ		
	3.3			11.1				3.3		FDTDZ161U335KDADZ0	DTDD2C335KZ		
	4.7			20.0				11.5		4.0	FDTDZ161U475KDADZ0	DTDD2C475KZ	
	1.0			25.0				12.5		6.0	22.5	0.8	1.2
	1.5	6.0	1.9		FDTDZ161U155KEAEZ0	DTDE2C155KZ							
	2.2	6.9	2.6		FDTDZ161U225KEAEZ0	DTDE2C225KZ							
	3.3	15.0	9.1		3.3	FDTDZ161U335KEAEZ0	DTDE2C335KZ						
	4.7		10.1		4.0	FDTDZ161U475KEAEZ0	DTDE2C475KZ						
	6.8		10.6		4.5	FDTDZ161U685KEAEZ0	DTDE2C685KZ						
	10	20.0	14.1		5.0	FDTDZ161U106KEAEZ0	DTDE2C106KZ						
250	0.0015	7.5	5.0	4.0	5.0	0.5	0.020	125	FDTDZ251U152KAAAZ0	DTDA2E152KZ			
	0.0022			4.0			0.026		FDTDZ251U222KAAAZ0	DTDA2E222KZ			
	0.0033			4.0			0.032		FDTDZ251U332KAAAZ0	DTDA2E332KZ			
	0.0047			4.0			0.038		FDTDZ251U472KAAAZ0	DTDA2E472KZ			
	0.0068			4.0			0.05		FDTDZ251U682KAAAZ0	DTDA2E682KZ			
	0.01			4.0			0.07		FDTDZ251U103KAAAZ0	DTDA2E103KZ			
	0.015			4.0			0.09		FDTDZ251U153KAAAZ0	DTDA2E153KZ			
	0.022			4.0			0.11		FDTDZ251U223KAAAZ0	DTDA2E223KZ			
	0.033			4.0			0.16		FDTDZ251U333KAAAZ0	DTDA2E333KZ			
	0.047			7.0			4.5		0.20	FDTDZ251U473KAAAZ0	DTDA2E473KZ		
	0.068		5.3			0.25	FDTDZ251U683KAAAZ0		DTDA2E683KZ				
	0.1		10.0			5.3	0.6		0.30	FDTDZ251U104KAAAZ0	DTDA2E104KZ		
	0.15					6.6			0.45	FDTDZ251U154KAAAZ0	DTDA2E154KZ		
	0.22					7.1			0.60	FDTDZ251U224KAAAZ0	DTDA2E224KZ		
	0.0047		10.5	7.0		4.0	7.5		0.5	0.038	125	FDTDZ251U472KBABZ0	DTDB2E472KZ
	0.0068					4.0				0.05		FDTDZ251U682KBABZ0	DTDB2E682KZ
	0.01					4.0				0.07		FDTDZ251U103KBABZ0	DTDB2E103KZ
	0.015					4.0				0.09		FDTDZ251U153KBABZ0	DTDB2E153KZ
	0.022	4.0			0.11	FDTDZ251U223KBABZ0		DTDB2E223KZ					
	0.033	4.0			0.16	FDTDZ251U333KBABZ0		DTDB2E333KZ					
	0.047	4.0			0.20	FDTDZ251U473KBABZ0		DTDB2E473KZ					
	0.068	4.1			0.25	FDTDZ251U683KBABZ0		DTDB2E683KZ					
	0.1	4.9			0.30	FDTDZ251U104KBABZ0		DTDB2E104KZ					
	0.15	10.0			4.7	0.6		0.45		FDTDZ251U154KBABZ0		DTDB2E154KZ	
	0.22		5.7	0.60	FDTDZ251U224KBABZ0		DTDB2E224KZ						
	0.33		7.4	0.75	FDTDZ251U334KBABZ0		DTDB2E334KZ						
	0.47		7.8	0.90	FDTDZ251U474KBABZ0		DTDB2E474KZ						
	0.68		8.8	1.5	FDTDZ251U684KBABZ0		DTDB2E684KZ						

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

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

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Dimensions (mm)					Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
		W	H	T	P	φd				
250	0.047	12.5	7.0	4.0	10.0	0.6	0.20	125	FDTDZ251U473KCACZ0	DTDC2E473KZ
	0.068			4.0			0.25		FDTDZ251U683KCACZ0	DTDC2E683KZ
	0.1			4.3			0.30		FDTDZ251U104KCACZ0	DTDC2E104KZ
	0.15			5.2			0.45		FDTDZ251U154KCACZ0	DTDC2E154KZ
	0.22		10.0	5.1			0.60		FDTDZ251U224KCACZ0	DTDC2E224KZ
	0.33			6.3			0.75		FDTDZ251U334KCACZ0	DTDC2E334KZ
	0.47			7.8			0.90		FDTDZ251U474KCACZ0	DTDC2E474KZ
	0.68			8.4			1.5		FDTDZ251U684KCACZ0	DTDC2E684KZ
	1.0		15.0	9.6			2.1		FDTDZ251U105KCACZ0	DTDC2E105KZ
	1.5		20.0	10.2			2.6		FDTDZ251U155KCACZ0	DTDC2E155KZ
	0.15	17.5	10.0	4.0	15.0	0.6	0.45	125	FDTDZ251U154KDADZ0	DTDD2E154KZ
	0.22			4.0			0.60		FDTDZ251U224KDADZ0	DTDD2E224KZ
	0.33			4.6			0.75		FDTDZ251U334KDADZ0	DTDD2E334KZ
	0.47			5.5			0.90		FDTDZ251U474KDADZ0	DTDD2E474KZ
	0.68			6.8			1.5		FDTDZ251U684KDADZ0	DTDD2E684KZ
	1.0		12.5	7.4			2.1		FDTDZ251U105KDADZ0	DTDD2E105KZ
	1.5		15.0	8.5			2.6		FDTDZ251U155KDADZ0	DTDD2E155KZ
	2.2		20.0	8.9			3.2		FDTDZ251U225KDADZ0	DTDD2E225KZ
	0.68	25.0	12.5	4.6	22.5	0.8	1.5	125	FDTDZ251U684KEAEZ0	DTDE2E684KZ
	1.0			5.6			2.1		FDTDZ251U105KEAEZ0	DTDE2E105KZ
	1.5		15.0	7.1			2.6		FDTDZ251U155KEAEZ0	DTDE2E155KZ
	2.2			7.9			3.2		FDTDZ251U225KEAEZ0	DTDE2E225KZ
	3.3		20.0	8.5			3.8		FDTDZ251U335KEAEZ0	DTDE2E335KZ

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

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

◆DIMENSIONS (mm)

