



# ELECTRONIC EQUIPMENT FILM CAPACITOR

## TACD Series



- Maximum operating temperature 105°C.
- Allowable temperature rise 15K max.
- Downsizing of TACB series.

### ◆SPECIFICATIONS

Items	Characteristics							
Category temperature range	-40 to +105°C							
Rated voltage range	250 to 1000V <sub>dc</sub>							
Capacitance tolerance	±5% (J) or ±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 0.05% : Equal or less than 1μF. Not more than (c×0.015+0.05)% : More than 1μF.							
Insulation resistance (Terminal - Terminal)	No less than 30000MΩ : Equal or less than 0.33μF. No less than 10000ΩF : More than 0.33μF.							
	Rated voltage (V <sub>dc</sub> )	250	315	400	500	630	800	1000
	Measurement voltage (V <sub>dc</sub> )	100	100	100	100	500	500	500
Endurance	The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 105°C.							
	Appearance	No serious degradation						
	Insulation resistance (Terminal - Terminal)	No less than 10000MΩ : Equal or less than 0.33μF.						
		No less than 3000ΩF : More than 0.33μF.						
	Dissipation factor (tanδ)	No more than initial specification at 1kHz.						
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 10000MΩ : Equal or less than 0.33μF.						
		No less than 3000ΩF : More than 0.33μF.						
	Dissipation factor (tanδ)	No more than initial specification at 1kHz.						
Capacitance change	Within ±5% of initial value.							

### ◆STANDARD RATINGS

WV (V <sub>dc</sub> )	Cap (μF)	Dimensions (mm)					Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
		W	H	T	F	φd				
250	0.82	16.2	10.8	10.3	10.0	0.8	5.45	100	FTACD251V824□DLCZ0	TACD2E824□
	1.0		11.6	11.1			6.00		FTACD251V105□DLCZ0	TACD2E105□
	1.2		12.5	11.9			6.57		FTACD251V125□DLCZ0	TACD2E125□
	1.5		13.6	13.0			7.34		FTACD251V155□DLCZ0	TACD2E155□
	1.8		14.7	14.0			8.04		FTACD251V185□DLCZ0	TACD2E185□
	2.2		15.9	15.2			8.89		FTACD251V225□DLCZ0	TACD2E225□
	2.7	23.2	14.0	13.4	17.5	1.0	6.66		FTACD251V275□ELHZ0	TACD2E275□
	3.3		15.2	14.5			7.36		FTACD251V335□ELHZ0	TACD2E335□
	3.9		16.4	15.6			8.00		FTACD251V395□ELHZ0	TACD2E395□
	4.7		17.8	16.9			8.78		FTACD251V475□ELHZ0	TACD2E475□
	5.6		17.1	16.3			7.87		FTACD251V565□FLEZ0	TACD2E565□
	6.8		18.7	17.8			8.67		FTACD251V685□FLEZ0	TACD2E685□
	8.2		20.3	19.3			9.52		FTACD251V825□FLEZ0	TACD2E825□
	10		22.2	21.2			10.00		FTACD251V106□FLEZ0	TACD2E106□
	12		24.1	23.0			10.00		FTACD251V126□FLEZ0	TACD2E126□
15	26.8	25.5	10.00	FTACD251V156□FLEZ0	TACD2E156□					
315	0.33	16.2	8.6	8.2	10.0	0.8	3.78	125	FTACD3B1V334□DLCZ0	TACD2F334□
	0.39		9.1	8.7			4.11		FTACD3B1V394□DLCZ0	TACD2F394□
	0.47		9.7	9.2			4.51		FTACD3B1V474□DLCZ0	TACD2F474□
	0.56		10.3	9.8			4.93		FTACD3B1V564□DLCZ0	TACD2F564□
	0.68		11.0	10.5			5.43		FTACD3B1V684□DLCZ0	TACD2F684□
	0.82		11.9	11.3			5.87		FTACD3B1V824□DLCZ0	TACD2F824□
	1.0	12.8	12.2	6.49	FTACD3B1V105□DLCZ0	TACD2F105□				
	1.2	18.2	12.9	12.3	12.5	0.8	6.23		FTACD3B1V125□HLGZ0	TACD2F125□
	1.5		14.1	13.4			6.96		FTACD3B1V155□HLGZ0	TACD2F155□
	1.8		15.2	14.5			7.63		FTACD3B1V185□HLGZ0	TACD2F185□
	2.2		14.4	13.7			6.49		FTACD3B1V225□ELHZ0	TACD2F225□
	2.7		15.6	14.9			7.19		FTACD3B1V275□ELHZ0	TACD2F275□
	3.3		17.1	16.3			7.95		FTACD3B1V335□ELHZ0	TACD2F335□
	3.9	23.2	18.3	17.5	17.5	1.0	8.65		FTACD3B1V395□ELHZ0	TACD2F395□
	4.7		19.9	19.0			9.34		FTACD3B1V475□ELHZ0	TACD2F475□
	5.6		19.3	18.4			8.51		FTACD3B1V565□FLEZ0	TACD2F565□
	6.8		21.0	20.0			9.38		FTACD3B1V685□FLEZ0	TACD2F685□
	8.2		22.9	21.8			10.00		FTACD3B1V825□FLEZ0	TACD2F825□
	10		25.1	23.9			10.00		FTACD3B1V106□FLEZ0	TACD2F106□
	12	43.2	27.3	26.0	37.5	1.0	10.00		FTACD3B1V126□FLEZ0	TACD2F126□
	15		24.2	23.1			9.33		FTACD3B1V156□TLJZ0	TACD2F156□
	18		26.3	25.1			10.00		FTACD3B1V186□TLJZ0	TACD2F186□
22	28.9		27.5	10.00			FTACD3B1V226□TLJZ0	TACD2F226□		

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)

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

(3)WV(V<sub>ac</sub>) : 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	F	φd							
400	0.22	16.2	8.7	8.3	10.0	0.8	3.91	150	FTACD401V224□DLCZO	TACD2G224□			
	0.27		9.3	8.9			4.33		FTACD401V274□DLCZO	TACD2G274□			
	0.33		10.0	9.5			4.27		FTACD401V334□DLCZO	TACD2G334□			
	0.39		10.6	10.1			4.64		FTACD401V394□DLCZO	TACD2G394□			
	0.47		11.4	10.8			5.09		FTACD401V474□DLCZO	TACD2G474□			
	0.56		12.2	11.6			5.56		FTACD401V564□DLCZO	TACD2G564□			
	0.68	13.1	12.5	6.13	FTACD401V684□DLCZO		TACD2G684□						
	0.82	13.2	12.6	5.89	FTACD401V824□HLGZO		TACD2G824□						
	1.0	14.3	13.7	6.50	FTACD401V105□HLGZO		TACD2G105□						
	1.2	13.4	12.8	5.71	FTACD401V125□ELHZO		TACD2G125□						
	1.5	14.7	14.1	6.13	FTACD401V155□ELHZO		TACD2G155□						
	1.8	15.9	15.2	6.71	FTACD401V185□ELHZO		TACD2G185□						
	2.2	17.4	16.5	7.43	FTACD401V225□ELHZO		TACD2G225□						
	2.7	19.0	18.1	8.23	FTACD401V275□ELHZO		TACD2G275□						
	3.3	18.6	17.7	7.47	FTACD401V335□FLEZO		TACD2G335□						
	3.9	20.0	19.1	8.13	FTACD401V395□FLEZO		TACD2G395□						
	4.7	21.8	20.7	8.92	FTACD401V475□FLEZO		TACD2G475□						
	5.6	23.6	22.5	9.74	FTACD401V565□FLEZO		TACD2G565□						
	6.8	25.8	24.5	10.00	FTACD401V685□FLEZO		TACD2G685□						
	8.2	28.1	26.8	10.00	FTACD401V825□FLEZO		TACD2G825□						
500	0.22	18.2	9.6	9.2	12.5	0.8	3.09	150	FTACD501V224□HLGZO	TACD2H224□			
	0.27		10.2	9.8			3.42		FTACD501V274□HLGZO	TACD2H274□			
	0.33		11.1	10.6			3.78		FTACD501V334□HLGZO	TACD2H334□			
	0.39		11.7	11.2			4.11		FTACD501V394□HLGZO	TACD2H394□			
	0.47		12.7	12.1			4.51		FTACD501V474□HLGZO	TACD2H474□			
	0.56		13.6	13.0			4.93		FTACD501V564□HLGZO	TACD2H564□			
	0.68	14.7	14.0	5.43	FTACD501V684□HLGZO		TACD2H684□						
	0.82	15.9	15.2	5.96	FTACD501V824□HLGZO		TACD2H824□						
	1.0	14.9	14.2	5.08	FTACD501V105□ELHZO		TACD2H105□						
	1.2	16.1	15.3	5.57	FTACD501V125□ELHZO		TACD2H125□						
	1.5	17.6	16.8	6.23	FTACD501V155□ELHZO		TACD2H155□						
	1.8	19.1	18.2	6.82	FTACD501V185□ELHZO		TACD2H185□						
	2.2	20.9	19.9	7.54	FTACD501V225□ELHZO		TACD2H225□						
	2.7	20.4	19.4	6.85	FTACD501V275□FLEZO		TACD2H275□						
	3.3	22.3	21.3	7.57	FTACD501V335□FLEZO		TACD2H335□						
	3.9	24.1	23.0	8.23	FTACD501V395□FLEZO		TACD2H395□						
	4.7	26.3	25.1	9.04	FTACD501V475□FLEZO		TACD2H475□						
	630	0.1	16.2	9.1	8.7		10.0		0.8	2.99	175	FTACD631V104□DLCZO	TACD2J104□
		0.12		9.6	9.2					3.28		FTACD631V124□DLCZO	TACD2J124□
		0.15		10.4	10.0					3.66		FTACD631V154□DLCZO	TACD2J154□
0.18		11.2		10.7	4.02	FTACD631V184□DLCZO		TACD2J184□					
0.22		12.0		11.5	4.44	FTACD631V224□DLCZO		TACD2J224□					
0.27		13.1		12.5	4.92	FTACD631V274□DLCZO		TACD2J274□					
0.33		13.1	12.5	4.76	FTACD631V334□HLGZO	TACD2J334□							
0.39		14.0	13.4	5.17	FTACD631V394□HLGZO	TACD2J394□							
0.47		15.2	14.5	5.68	FTACD631V474□HLGZO	TACD2J474□							
0.56		14.0	13.4	4.79	FTACD631V564□ELHZO	TACD2J564□							
0.68		15.2	14.5	5.27	FTACD631V684□ELHZO	TACD2J684□							
0.82		16.5	15.7	5.79	FTACD631V824□ELHZO	TACD2J824□							
1.0		18.0	17.1	6.39	FTACD631V105□ELHZO	TACD2J105□							
1.2		19.5	18.6	7.00	FTACD631V125□ELHZO	TACD2J125□							
1.5		19.1	18.2	6.42	FTACD631V155□FLEZO	TACD2J155□							
1.8		20.8	19.8	7.04	FTACD631V185□FLEZO	TACD2J185□							
2.2		22.7	21.7	7.79	FTACD631V225□FLEZO	TACD2J225□							
2.7		25.0	23.8	8.62	FTACD631V275□FLEZO	TACD2J275□							
3.3		27.4	26.1	9.54	FTACD631V335□FLEZO	TACD2J335□							
3.9		23.9	22.8	6.93	FTACD631V395□TLJZO	TACD2J395□							
4.7	25.9	24.7	7.61	FTACD631V475□TLJZO	TACD2J475□								
5.6	28.1	26.8	8.31	FTACD631V565□TLJZO	TACD2J565□								

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)

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

(3)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	F	φd				
800	0.056	16.2	8.5	8.1	10.0	0.8	2.60	200	FTACD801V563□DLCZ0	TACD2K563□
	0.068		9.0	8.6			2.86		FTACD801V683□DLCZ0	TACD2K683□
	0.082		9.6	9.2			3.14		FTACD801V823□DLCZ0	TACD2K823□
	0.1		10.3	9.8			3.34		FTACD801V104□DLCZ0	TACD2K104□
	0.12		11.0	10.5			3.66		FTACD801V124□DLCZ0	TACD2K124□
	0.15		12.0	11.4			4.09		FTACD801V154□DLCZ0	TACD2K154□
	0.18	18.2	12.4	11.8	12.5		3.92		FTACD801V184□HLGZ0	TACD2K184□
	0.22		13.4	12.8			4.33		FTACD801V224□HLGZ0	TACD2K224□
	0.27		14.6	13.9			4.80		FTACD801V274□HLGZ0	TACD2K274□
	0.33		13.5	12.9			4.09		FTACD801V334□ELHZ0	TACD2K334□
	0.39	23.2	14.4	13.8	17.5		4.46		FTACD801V394□ELHZ0	TACD2K394□
	0.47		15.6	14.9			4.88		FTACD801V474□ELHZ0	TACD2K474□
	0.56		16.8	16.0			5.34		FTACD801V564□ELHZ0	TACD2K564□
	0.68		18.3	17.5			5.87		FTACD801V684□ELHZ0	TACD2K684□
	0.82		19.9	19.0			6.46		FTACD801V824□ELHZ0	TACD2K824□
	1.0		28.2	19.2			18.3		22.5	5.85
	1.2	20.8		19.9	6.41		FTACD801V125□FLEZ0			TACD2K125□
	1.5	23.0		22.0	7.17		FTACD801V155□FLEZ0			TACD2K155□
	1.8	25.1		23.9	7.85		FTACD801V185□FLEZ0			TACD2K185□
	2.2	27.5		26.2	8.68		FTACD801V225□FLEZ0			TACD2K225□
2.7	43.2	23.8		22.7	37.5	6.44	FTACD801V275□TLJZ0	TACD2K275□		
3.3		26.0	24.8	7.12		FTACD801V335□TLJZ0	TACD2K335□			
3.9		28.0	26.7	7.73		FTACD801V395□TLJZ0	TACD2K395□			
0.033		16.2	8.9	8.5		10.0	2.28	250	FTACD102V333□DLCZ0	TACD3A333□
0.039	9.4		9.0	2.48	FTACD102V393□DLCZ0		TACD3A393□			
0.047	10.0		9.6	2.72	FTACD102V473□DLCZ0		TACD3A473□			
0.056	10.7		10.2	2.97	FTACD102V563□DLCZ0		TACD3A563□			
0.068	11.5		11.0	3.28	FTACD102V683□DLCZ0		TACD3A683□			
0.082	12.4		11.8	3.60	FTACD102V823□DLCZ0		TACD3A823□			
0.1	18.2	12.3	11.7	12.5	3.48	FTACD102V104□HLGZ0	TACD3A104□			
0.12		13.2	12.6		3.81	FTACD102V124□HLGZ0	TACD3A124□			
0.15		14.5	13.8		4.26	FTACD102V154□HLGZ0	TACD3A154□			
0.18		23.2	13.3		12.7	17.5	3.60		FTACD102V184□ELHZ0	TACD3A184□
0.22	14.4		13.8	3.97	FTACD102V224□ELHZ0		TACD3A224□			
0.27	15.8		15.0	4.40	FTACD102V274□ELHZ0		TACD3A274□			
0.33	17.2		16.4	4.86	FTACD102V334□ELHZ0		TACD3A334□			
0.39	18.5		17.6	5.29	FTACD102V394□ELHZ0		TACD3A394□			
0.47	20.1		19.1	5.81	FTACD102V474□ELHZ0		TACD3A474□			
0.56	28.2	19.2	18.3	22.5	5.21	FTACD102V564□FLEZ0	TACD3A564□			
0.68		20.9	19.9		5.74	FTACD102V684□FLEZ0	TACD3A684□			
0.82		22.8	21.7		6.30	FTACD102V824□FLEZ0	TACD3A824□			
1.0		24.9	23.7		6.96	FTACD102V105□FLEZ0	TACD3A105□			
1.2		27.1	25.8		25.8	22.5	7.62		FTACD102V125□FLEZ0	TACD3A125□
1.2			27.1				25.8	7.62	FTACD102V125□FLEZ0	TACD3A125□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)

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

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

◆DIMENSIONS (mm)

