

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)							
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	FTACD251V824JDLGZ0	TACD2E824J
	1.0		11.6	11.1			6.00		FTACD251V105JDLGZ0	TACD2E105J
	1.2		12.5	11.9			6.57		FTACD251V125JDLGZ0	TACD2E125J
	1.5		13.6	13.0			7.34		FTACD251V155JDLGZ0	TACD2E155J
	1.8		14.7	14.0			8.04		FTACD251V185JDLGZ0	TACD2E185J
	2.2		15.9	15.2			8.89		FTACD251V225JDLGZ0	TACD2E225J
	2.7	23.2	14.0	13.4	17.5	0.8	6.66		FTACD251V275JELHZ0	TACD2E275J
	3.3		15.2	14.5			7.36		FTACD251V335JELHZ0	TACD2E335J
	3.9		16.4	15.6			8.00		FTACD251V395JELHZ0	TACD2E395J
	4.7	28.2	17.8	16.9	22.5	1.0	8.78		FTACD251V475JELHZ0	TACD2E475J
	5.6		17.1	16.3			7.87		FTACD251V565JFLEZ0	TACD2E565J
	6.8		18.7	17.8			8.67		FTACD251V685JFLEZ0	TACD2E685J
	8.2		20.3	19.3			9.52		FTACD251V825JFLEZ0	TACD2E825J
	10		22.2	21.2			10.00		FTACD251V106JFLEZ0	TACD2E106J
	12		24.1	23.0			10.00		FTACD251V126JFLEZ0	TACD2E126J
15	26.8	25.5	10.00	FTACD251V156JFLEZ0	TACD2E156J					
315	0.33	16.2	8.6	8.2	10.0	0.8	3.78	125	FTACD3B1V334JDLGZ0	TACD2F334J
	0.39		9.1	8.7			4.11		FTACD3B1V394JDLGZ0	TACD2F394J
	0.47		9.7	9.2			4.51		FTACD3B1V474JDLGZ0	TACD2F474J
	0.56		10.3	9.8			4.93		FTACD3B1V564JDLGZ0	TACD2F564J
	0.68		11.0	10.5			5.43		FTACD3B1V684JDLGZ0	TACD2F684J
	0.82		11.9	11.3			5.87		FTACD3B1V824JDLGZ0	TACD2F824J
	1.0	12.8	12.2	6.49	FTACD3B1V105JDLGZ0	TACD2F105J				
	1.2	18.2	12.9	12.3	12.5	0.8	6.23		FTACD3B1V125JHLGZ0	TACD2F125J
	1.5		14.1	13.4			6.96		FTACD3B1V155JHLGZ0	TACD2F155J
	1.8		15.2	14.5			7.63		FTACD3B1V185JHLGZ0	TACD2F185J
	2.2	23.2	14.4	13.7	17.5	1.0	6.49		FTACD3B1V225JELHZ0	TACD2F225J
	2.7		15.6	14.9			7.19		FTACD3B1V275JELHZ0	TACD2F275J
	3.3		17.1	16.3			7.95		FTACD3B1V335JELHZ0	TACD2F335J
	3.9		18.3	17.5			8.65		FTACD3B1V395JELHZ0	TACD2F395J
	4.7		19.9	19.0			9.34		FTACD3B1V475JELHZ0	TACD2F475J
	5.6		28.2	19.3			18.4		22.5	1.0
	6.8	21.0		20.0	9.38	FTACD3B1V685JFLEZ0	TACD2F685J			
	8.2	22.9		21.8	10.00	FTACD3B1V825JFLEZ0	TACD2F825J			
	10	25.1		23.9	10.00	FTACD3B1V106JFLEZ0	TACD2F106J			
	12	27.3		26.0	10.00	FTACD3B1V126JFLEZ0	TACD2F126J			
	15	24.2		23.1	9.33	FTACD3B1V156JTLJZ0	TACD2F156J			
	18	43.2	26.3	25.1	37.5	1.0	10.00		FTACD3B1V186JTLJZ0	TACD2F186J
22	28.9		27.5	10.00			FTACD3B1V226JTLJZ0	TACD2F226J		

- (1)Capacitance tolerance:Standard(J:±5%),Option(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 ( $\mu$ F)	Dimensions (mm)					Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)			
		W	H	T	F	$\phi$ $\phi$ d							
400	0.22	16.2	8.7	8.3	10.0	0.8	3.91	150	FTACD401V224JDLCZO	TACD2G224J			
	0.27		9.3	8.9			4.33		FTACD401V274JDLCZO	TACD2G274J			
	0.33		10.0	9.5			4.27		FTACD401V334JDLCZO	TACD2G334J			
	0.39		10.6	10.1			4.64		FTACD401V394JDLCZO	TACD2G394J			
	0.47		11.4	10.8			5.09		FTACD401V474JDLCZO	TACD2G474J			
	0.56		12.2	11.6			5.56		FTACD401V564JDLCZO	TACD2G564J			
	0.68	18.2	13.1	12.5	12.5		6.13		FTACD401V684JDLCZO	TACD2G684J			
	0.82		13.2	12.6			5.89		FTACD401V824JHLGZO	TACD2G824J			
	1.0		14.3	13.7			6.50		FTACD401V105JHLGZO	TACD2G105J			
	1.2		13.4	12.8			5.71		FTACD401V125JELHZO	TACD2G125J			
	1.5	23.2	14.7	14.1	17.5		6.13		FTACD401V155JELHZO	TACD2G155J			
	1.8		15.9	15.2			6.71		FTACD401V185JELHZO	TACD2G185J			
	2.2		17.4	16.5			7.43		FTACD401V225JELHZO	TACD2G225J			
	2.7		19.0	18.1			8.23		FTACD401V275JELHZO	TACD2G275J			
	3.3	28.2	18.6	17.7	22.5		7.47		FTACD401V335JFLEZO	TACD2G335J			
	3.9		20.0	19.1			8.13		FTACD401V395JFLEZO	TACD2G395J			
	4.7		21.8	20.7			8.92		FTACD401V475JFLEZO	TACD2G475J			
	5.6		23.6	22.5			9.74		FTACD401V565JFLEZO	TACD2G565J			
	6.8		25.8	24.5			10.00		FTACD401V685JFLEZO	TACD2G685J			
	8.2		28.1	26.8			10.00		FTACD401V825JFLEZO	TACD2G825J			
500	0.22		18.2	9.6		9.2	12.5	0.8	150	FTACD501V224JHLGZO	TACD2H224J		
	0.27			10.2		9.8				3.42	FTACD501V274JHLGZO	TACD2H274J	
	0.33	11.1		10.6	3.78	FTACD501V334JHLGZO				TACD2H334J			
	0.39	11.7		11.2	4.11	FTACD501V394JHLGZO				TACD2H394J			
	0.47	12.7		12.1	4.51	FTACD501V474JHLGZO				TACD2H474J			
	0.56	13.6		13.0	4.93	FTACD501V564JHLGZO				TACD2H564J			
	0.68	23.2	14.7	14.0	17.5	5.43	FTACD501V684JHLGZO			TACD2H684J			
	0.82		15.9	15.2		5.96	FTACD501V824JHLGZO			TACD2H824J			
	1.0		14.9	14.2		5.08	FTACD501V105JELHZO			TACD2H105J			
	1.2		16.1	15.3		5.57	FTACD501V125JELHZO			TACD2H125J			
	1.5	28.2	17.6	16.8	22.5	6.23	FTACD501V155JELHZO			TACD2H155J			
	1.8		19.1	18.2		6.82	FTACD501V185JELHZO			TACD2H185J			
	2.2		20.9	19.9		7.54	FTACD501V225JELHZO			TACD2H225J			
	2.7		20.4	19.4		6.85	FTACD501V275JFLEZO			TACD2H275J			
	3.3	28.2	22.3	21.3	22.5	7.57	FTACD501V335JFLEZO			TACD2H335J			
	3.9		24.1	23.0		8.23	FTACD501V395JFLEZO			TACD2H395J			
	4.7		26.3	25.1		9.04	FTACD501V475JFLEZO			TACD2H475J			
	630		0.1	16.2		9.1	8.7			10.0	0.8	175	FTACD631V104JDLCZO
		0.12	9.6		9.2	3.28	FTACD631V124JDLCZO						TACD2J124J
		0.15	10.4		10.0	3.66	FTACD631V154JDLCZO						TACD2J154J
0.18		11.2	10.7		4.02	FTACD631V184JDLCZO	TACD2J184J						
0.22		12.0	11.5		4.44	FTACD631V224JDLCZO	TACD2J224J						
0.27		13.1	12.5		4.92	FTACD631V274JDLCZO	TACD2J274J						
0.33		18.2	13.1	12.5	12.5	4.76	FTACD631V334JHLGZO	TACD2J334J					
0.39			14.0	13.4		5.17	FTACD631V394JHLGZO	TACD2J394J					
0.47			15.2	14.5		5.68	FTACD631V474JHLGZO	TACD2J474J					
0.56			14.0	13.4		4.79	FTACD631V564JELHZO	TACD2J564J					
0.68		23.2	15.2	14.5	17.5	5.27	FTACD631V684JELHZO	TACD2J684J					
0.82			16.5	15.7		5.79	FTACD631V824JELHZO	TACD2J824J					
1.0			18.0	17.1		6.39	FTACD631V105JELHZO	TACD2J105J					
1.2			19.5	18.6		7.00	FTACD631V125JELHZO	TACD2J125J					
1.5		28.2	19.1	18.2	22.5	6.42	FTACD631V155JFLEZO	TACD2J155J					
1.8			20.8	19.8		7.04	FTACD631V185JFLEZO	TACD2J185J					
2.2			22.7	21.7		7.79	FTACD631V225JFLEZO	TACD2J225J					
2.7			25.0	23.8		8.62	FTACD631V275JFLEZO	TACD2J275J					
3.3		43.2	27.4	26.1	37.5	9.54	FTACD631V335JFLEZO	TACD2J335J					
3.9			23.9	22.8		6.93	FTACD631V395JTLJZO	TACD2J395J					
4.7	25.9		24.7	7.61		FTACD631V475JTLJZO	TACD2J475J						
5.6	28.1		26.8	8.31		FTACD631V565JTLJZO	TACD2J565J						

(1)Capacitance tolerance:Standard(J: $\pm$ 5%),Option(K: $\pm$ 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	φ φd					
800	0.056	16.2	8.5	8.1	10.0	0.8	2.60	200	FTACD801V563JDLCZ0	TACD2K563J	
	0.068		9.0	8.6			2.86		FTACD801V683JDLCZ0	TACD2K683J	
	0.082		9.6	9.2			3.14		FTACD801V823JDLCZ0	TACD2K823J	
	0.1		10.3	9.8			3.34		FTACD801V104JDLCZ0	TACD2K104J	
	0.12		11.0	10.5			3.66		FTACD801V124JDLCZ0	TACD2K124J	
	0.15	12.0	11.4	4.09	FTACD801V154JDLCZ0		TACD2K154J				
	0.18	18.2	12.4	11.8	12.5		3.92		FTACD801V184JHLGZ0	TACD2K184J	
	0.22		13.4	12.8			4.33		FTACD801V224JHLGZ0	TACD2K224J	
	0.27		14.6	13.9			4.80		FTACD801V274JHLGZ0	TACD2K274J	
	0.33	23.2	13.5	12.9	17.5		4.09		FTACD801V334JELHZ0	TACD2K334J	
	0.39		14.4	13.8			4.46		FTACD801V394JELHZ0	TACD2K394J	
	0.47		15.6	14.9			4.88		FTACD801V474JELHZ0	TACD2K474J	
	0.56		16.8	16.0			5.34		FTACD801V564JELHZ0	TACD2K564J	
	0.68		18.3	17.5			5.87		FTACD801V684JELHZ0	TACD2K684J	
	0.82	28.2	19.9	19.0	22.5		6.46		FTACD801V824JELHZ0	TACD2K824J	
	1.0		19.2	18.3			5.85		FTACD801V105JFLEZ0	TACD2K105J	
	1.2		20.8	19.9			6.41		FTACD801V125JFLEZ0	TACD2K125J	
	1.5		23.0	22.0			7.17		FTACD801V155JFLEZ0	TACD2K155J	
	1.8		25.1	23.9			7.85		FTACD801V185JFLEZ0	TACD2K185J	
	2.2	43.2	27.5	26.2	37.5		8.68		FTACD801V225JFLEZ0	TACD2K225J	
2.7	23.8		22.7	6.44		FTACD801V275JTLJZ0	TACD2K275J				
3.3	26.0		24.8	7.12		FTACD801V335JTLJZ0	TACD2K335J				
3.9	28.0		26.7	7.73		FTACD801V395JTLJZ0	TACD2K395J				
2.28	1000		8.9	8.5		10.0	0.8	2.28	250	FTACD102V333JDLCZ0	TACD3A333J
0.039		9.4	9.0	2.48	FTACD102V393JDLCZ0			TACD3A393J			
0.047		16.2	10.0	9.6	12.5			2.72		FTACD102V473JDLCZ0	TACD3A473J
0.056			10.7	10.2				2.97		FTACD102V563JDLCZ0	TACD3A563J
0.068			11.5	11.0				3.28		FTACD102V683JDLCZ0	TACD3A683J
0.082			12.4	11.8				3.60		FTACD102V823JDLCZ0	TACD3A823J
0.1			12.3	11.7				3.48		FTACD102V104JHLGZ0	TACD3A104J
0.12		18.2	13.2	12.6	17.5			3.81		FTACD102V124JHLGZ0	TACD3A124J
0.15			14.5	13.8				4.26		FTACD102V154JHLGZ0	TACD3A154J
0.18			13.3	12.7				3.60		FTACD102V184JELHZ0	TACD3A184J
0.22		23.2	14.4	13.8	22.5			3.97		FTACD102V224JELHZ0	TACD3A224J
0.27			15.8	15.0				4.40		FTACD102V274JELHZ0	TACD3A274J
0.33			17.2	16.4				4.86		FTACD102V334JELHZ0	TACD3A334J
0.39			18.5	17.6				5.29		FTACD102V394JELHZ0	TACD3A394J
0.47			20.1	19.1				5.81		FTACD102V474JELHZ0	TACD3A474J
0.56		28.2	19.2	18.3	22.5			5.21		FTACD102V564JFLEZ0	TACD3A564J
0.68			20.9	19.9				5.74		FTACD102V684JFLEZ0	TACD3A684J
0.82			22.8	21.7				6.30		FTACD102V824JFLEZ0	TACD3A824J
1.0			24.9	23.7				6.96		FTACD102V105JFLEZ0	TACD3A105J
1.2			27.1	25.8				7.62		FTACD102V125JFLEZ0	TACD3A125J

- (1)Capacitance tolerance:Standard(J:±5%),Option(K:±10%)
- (2)The maximum ripple current : +85°C max., 100kHz, sine wave
- (3)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)

