NIPPON CHEMI-CON

FILM CAPACITORS

CAT. No. E1003D

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FILM CAPACITORS SERIES TABLE

Item	Series	Rated voltage range	Rated Capacitance range (μF)	Category temperature range (℃)
TACD	High frequency use, metallized polypropylene film. Standard type (Downsizing of TACB series)	250 to 1000 V_{dc}	0.033 to 22	-40 to +105
TACC	High frequency use, metallized polypropylene film. Large capacitance type of TACB series	450 to 1000 V_{dc}	1.0 to 18	-40 to +105
TACB	High frequency use, metallized polypropylene film.	250 to 800 V_{dc}	0.033 to 22	-40 to +105
HACD	High frequency use, metallized polypropylene film. High voltage type of TACD series (Downsizing of HACB series)	630 to 4000 V_{dc}	0.0033 to 1.5	-40 to +105
HACB	High frequency use, metallized polypropylene film. High voltage type of TACB series	630 to 4000 V_{dc}	0.001 to 1.2	-40 to +105
DADC	High frequency use, metallized polypropylene film. For general use	250 to 630 V_{dc}	0.01 to 4.7	-40 to +105
DLDA	High frequency use, metallized polypropylene film. For resonance circuit use	800 to 1800 VH	0.001 to 0.1	-40 to +105
DTD-Z	General use, metallized polyester film. Resin dipped stacked type, small size	35 to 250 V_{dc}	0.0015 to 22	-40 to +105
DFDD	General use, metallized polyester film. Resin dipped wound type, small size	250 to 630 V_{dc}	0.01 to 2.2	-40 to +105

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FILM CAPACITORS PRECAUTIONS AND GUIDELINES

1 In designing device circuits

(1) Confirming operating and installation environment,use capacitors within the performance limits prescribed in their catalog or product specifications.
(2) Do not use capacitors at the environment of which temperature drastically changeseven though it stays within the prescribed range.
(3) Do not use capacitors at the humid or dewy environment.
(4) Select the proper capacitors matching for an application.
(5) Do not use the capacitors, which have particularly been designed for a specific application, into other applications. In particular, do not use the capacitor samples, which are provided for the purpose of appearance or electrical check, for other purpose
(6) Charge and discharge cycles that are rapidly repeated at more than the prescribed conditions causes capacitors to deteriorate in their characteristics or breakdown.
(7) Unless otherwise prescribed, do not apply the surge or ripple voltage of which peak voltage exceeds the specified full rated voltage.
(8) Where using capacitors at a rated temperature, do not apply voltage more than the derating voltage specified at the temperature.
(9) Where using capacitors into AC or pulsing circuits, do not apply current more than the specified maximum permissible current. For the details, consult us.
(10) A rise in capacitor temperature, which is caused by a ripple current, shall be so set as notto exceed the specified limit at non-circulating air condition. Note that a capacitor changes in the temperature rise by the operating temperature as its capacitance changes.
(11) The sum of ambient temperature, including the influence of heat from other components, and the rise of temperature by self-heating must be within the specified upper category.
(12) Do not connect capacitors in series or parallel. Consult us for it.

2 Installation and assembly board washing

(1) Do not pull or twist the lead wires of a capacitor by applying the force more than the limits when installing the capacitor into the printed circuit board. In particular, the capacitor shall be so installed into the board as not to have a crack in the covering resin of the capacitor. If it cannot be avoided, use capacitors with pre–formed lead wires.
(2) If a large–sized capacitor is installed and/or the device is exposed to a vibration shock, anchor the body of the capacitor to the board by means of a clamp or adhesive that does not effect the capacitor.
(3) Do not touch the exterior cover of a capacitor to the metal part of the device or other components.
(4) For soldering, follow the specified conditions. Because the plastic film of the capacitorsis effected by heat, overheating the capacitors during soldering causes tanδ to increase.
(5) If the assembly boards are washed for the purposes of removing residual flux, follow the specified conditions.
①Suitable Solvents Fluorocarbon, Alcohols, Water soluble solvents.
②Cleaning Methods Vaporized Cleaning, Dip Cleaning, Ultrasonic Cleaning. When Cleaning, Temperature and Period Shall not Be Exceeded 50℃ and 5 Minutes.
③After Treatment It is Necessary To Remove Cleaning Solvent From P.W.B. By enough Dryness.

3 While devices are operating

(1) Do not touch a capacitor, while under load, directly with bare hands. Touching the capacitor causes a shock hazard.
(2) Even under non–load condition, a capacitor may have charge. Also, the capacitor that has been discharged may be spontaneously recharged by dielectric absorption. Handle the capacitor after discharging with a discharge resistor.
(3) Do not short the terminals of a capacitor by applying any conductive object. Do not spillany electric– conductive liquid such as acid or alkaline solution over the capacitor as Well.
(4) Do not use capacitors at the following environment ;
①Water, chemicals or oil spatters on the capacitors."
②Direct sunlight pours down onto the capacitors.
③Ozone, ultraviolet rays or radiation is applied to the capacitors.
④Corrosive gas is exposed to the capacitors.

4 If a capacitor should fail while under load, follow the below

If smoke, fire or stench should be emitted while the device is operating, turn off or unplug the power supply of the device and then extinguish a fire.

5 Storage and handling

(1) For the capacitors that are stored for more than a year, make sure of their characteristics and lead solder ability before use.
(2) Don't increase an excessive vibration, a shock, pressure, and so on to the capacitors.
(3) Don't add the excessive power to the lead wire.
(4) Scratching the dielectric film of a capacitor causes If a capacitor body is scratched or damaged so deep that the dielectric film is damaged, the dielectric will be destructively damaged. Handle capacitors with care. In particular, note that CQ92 series capacitors have thin exterior cover resin because of miniaturization.

6 Disposal

Burning capacitors may discharge toxic gas. Ask a specialist for the disposal of industrial wastes.

7 Catalogs

Specifications in catalogs, materials, etc. are subject to change without notice. Performance test data in the catalogs show typical values, which are not assured as specifications. For the details, refer to guidelines EIAJ RCR–2350 for plastic film fixed capacitors for electronic equipment.

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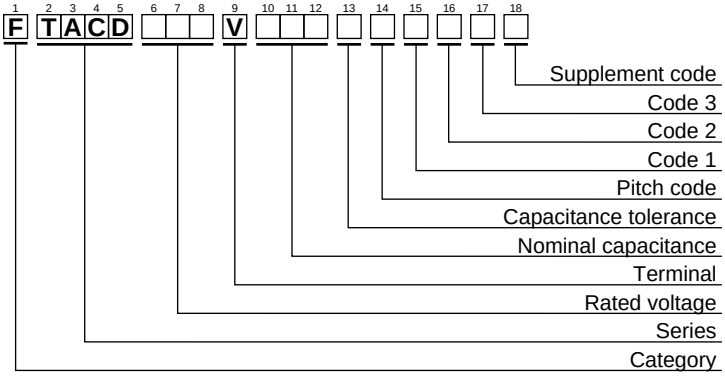
FILM CAPACITORS GUIDE TO GLOBAL CODE

◆GLOBAL CODE SYSTEM

The current parts numbering system is changed to new system for global coding.
Your cooperation will be very much appreciated.

(Example) TACD series



When ordering, always specify complete "Part Number" of Catalog No.1003

CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

TACD Series

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

◆SPECIFICATIONS

Items	Characteristics
Category temperature range	-40 to +105℃
Rated voltage range	250 to 1000Vdc
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 (Vdc)	250	315	400	630	800	1000
Measurement voltage (Vdc)	100	100	100	500	500	500

Endurance

The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 105℃.

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℃ 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 (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	F	φd	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
250	0.82	16.2	10.8	10.3	10.0	0.8	4.94	100	FTACD251V824□DLCZ0	TACD2E824□
	1.0		11.6	11.1			5.45		FTACD251V105□DLCZ0	TACD2E105□
	1.2		12.5	11.9			5.97		FTACD251V125□DLCZ0	TACD2E125□
	1.5		13.6	13.0			6.67		FTACD251V155□DLCZ0	TACD2E155□
	1.8		14.7	14.0			7.31		FTACD251V185□DLCZ0	TACD2E185□
	2.2		15.9	15.2			8.08		FTACD251V225□DLCZ0	TACD2E225□
	2.7	23.2	14.0	13.4	17.5		6.05		FTACD251V275□ELHZ0	TACD2E275□
	3.3		15.2	14.5			6.69		FTACD251V335□ELHZ0	TACD2E335□
	3.9		16.4	15.6			7.27		FTACD251V395□ELHZ0	TACD2E395□
	4.7		17.8	16.9			7.98		FTACD251V475□ELHZ0	TACD2E475□
	5.6	28.2	17.1	16.3	22.5	1.0	7.15		FTACD251V565□FLEZ0	TACD2E565□
	6.8		18.7	17.8			7.88		FTACD251V685□FLEZ0	TACD2E685□
	8.2		20.3	19.3			8.65		FTACD251V825□FLEZ0	TACD2E825□
	10		22.2	21.2			9.34		FTACD251V106□FLEZ0	TACD2E106□
	12		24.1	23.0			9.34		FTACD251V126□FLEZ0	TACD2E126□
	15		26.8	25.5			9.34		FTACD251V156□FLEZ0	TACD2E156□
315	0.33	16.2	8.6	8.2	10.0	0.8	3.44	125	FTACD3B1V334□DLCZ0	TACD2F334□
	0.39		9.1	8.7			3.74		FTACD3B1V394□DLCZ0	TACD2F394□
	0.47		9.7	9.2			4.10		FTACD3B1V474□DLCZ0	TACD2F474□
	0.56		10.3	9.8			4.48		FTACD3B1V564□DLCZ0	TACD2F564□
	0.68		11.0	10.5			4.94		FTACD3B1V684□DLCZ0	TACD2F684□
	0.82		11.9	11.3			5.34		FTACD3B1V824□DLCZ0	TACD2F824□
	1.0		12.8	12.2			5.90		FTACD3B1V105□DLCZ0	TACD2F105□
	1.2	18.2	12.9	12.3	12.5		5.66		FTACD3B1V125□HLGZ0	TACD2F125□
	1.5		14.1	13.4			6.33		FTACD3B1V155□HLGZ0	TACD2F155□
	1.8		15.2	14.5			6.94		FTACD3B1V185□HLGZ0	TACD2F185□
	2.2	23.2	14.4	13.7	17.5		5.90		FTACD3B1V225□ELHZ0	TACD2F225□
	2.7		15.6	14.9			6.54		FTACD3B1V275□ELHZ0	TACD2F275□
	3.3		17.1	16.3			7.23		FTACD3B1V335□ELHZ0	TACD2F335□
	3.9		18.3	17.5			7.86		FTACD3B1V395□ELHZ0	TACD2F395□
	4.7		19.9	19.0			8.63		FTACD3B1V475□ELHZ0	TACD2F475□
	5.6	28.2	19.3	18.4	22.5	1.0	7.74		FTACD3B1V565□FLEZ0	TACD2F565□
	6.8		21.0	20.0			8.53		FTACD3B1V685□FLEZ0	TACD2F685□
	8.2		22.9	21.8			9.34		FTACD3B1V825□FLEZ0	TACD2F825□
	10		25.1	23.9			9.34		FTACD3B1V106□FLEZ0	TACD2F106□
	12		27.3	26.0			9.34		FTACD3B1V126□FLEZ0	TACD2F126□
	15	43.2	24.2	23.1	37.5		8.48		FTACD3B1V156□TLJZ0	TACD2F156□
	18		26.3	25.1			9.29		FTACD3B1V186□TLJZ0	TACD2F186□
	22		28.9	27.5			9.34		FTACD3B1V226□TLJZ0	TACD2F226□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

TACD 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	F	φd				
400	0.22	16.2	8.3	8.3	10.0	0.8	3.55	150	FTACD401V224□DLCZ0	TACD2G224□
	0.27		9.3	8.9			3.94		FTACD401V274□DLCZ0	TACD2G274□
	0.33		10.0	9.5			3.88		FTACD401V334□DLCZ0	TACD2G334□
	0.39		10.6	10.1			4.22		FTACD401V394□DLCZ0	TACD2G394□
	0.47		11.4	10.8			4.63		FTACD401V474□DLCZ0	TACD2G474□
	0.56		12.2	11.6			5.05		FTACD401V564□DLCZ0	TACD2G564□
	0.68		13.1	12.5			5.57		FTACD401V684□DLCZ0	TACD2G684□
	0.82	18.2	13.2	12.6	12.5		5.35		FTACD401V824□HLGZ0	TACD2G824□
	1.0		14.3	13.7			5.91		FTACD401V105□HLGZ0	TACD2G105□
	1.2	23.2	13.4	12.8	17.5		5.19		FTACD401V125□ELHZ0	TACD2G125□
	1.5		14.7	14.1			5.57		FTACD401V155□ELHZ0	TACD2G155□
	1.8		15.9	15.2			6.10		FTACD401V185□ELHZ0	TACD2G185□
	2.2		17.4	16.5			6.75		FTACD401V225□ELHZ0	TACD2G225□
	2.7		19.0	18.1			7.48		FTACD401V275□ELHZ0	TACD2G275□
	3.3	28.2	18.6	17.7	22.5	1.0	6.79		FTACD401V335□FLEZ0	TACD2G335□
	3.9		20.0	19.1			7.39		FTACD401V395□FLEZ0	TACD2G395□
	4.7		21.8	20.7			8.11		FTACD401V475□FLEZ0	TACD2G475□
	5.6		23.6	22.5			8.85		FTACD401V565□FLEZ0	TACD2G565□
	6.8		25.8	24.5			9.34		FTACD401V685□FLEZ0	TACD2G685□
	8.2		28.1	26.8			9.34		FTACD401V825□FLEZ0	TACD2G825□
630	0.1	16.2	9.1	8.7	10.0	0.8	2.72	175	FTACD631V104□DLCZ0	TACD2J104□
	0.12		9.6	9.2			2.98		FTACD631V124□DLCZ0	TACD2J124□
	0.15		10.4	10.0			3.33		FTACD631V154□DLCZ0	TACD2J154□
	0.18		11.2	10.7			3.65		FTACD631V184□DLCZ0	TACD2J184□
	0.22		12.0	11.5			4.04		FTACD631V224□DLCZ0	TACD2J224□
	0.27		13.1	12.5			4.47		FTACD631V274□DLCZ0	TACD2J274□
	0.33	18.2	13.1	12.5	12.5		4.33		FTACD631V334□HLGZ0	TACD2J334□
	0.39		14.0	13.4			4.70		FTACD631V394□HLGZ0	TACD2J394□
	0.47		15.2	14.5			5.16		FTACD631V474□HLGZ0	TACD2J474□
	0.56	23.2	14.0	13.4	17.5		4.35		FTACD631V564□ELHZ0	TACD2J564□
	0.68		15.2	14.5			4.79		FTACD631V684□ELHZ0	TACD2J684□
	0.82		16.5	15.7			5.26		FTACD631V824□ELHZ0	TACD2J824□
	1.0		18.0	17.1			5.81		FTACD631V105□ELHZ0	TACD2J105□
	1.2		19.5	18.6			6.36		FTACD631V125□ELHZ0	TACD2J125□
	1.5	28.2	19.1	18.2	22.5	1.0	5.84		FTACD631V155□FLEZ0	TACD2J155□
	1.8		20.8	19.8			6.40		FTACD631V185□FLEZ0	TACD2J185□
	2.2		22.7	21.7			7.08		FTACD631V225□FLEZ0	TACD2J225□
	2.7		25.0	23.8			7.84		FTACD631V275□FLEZ0	TACD2J275□
	3.3		27.4	26.1			8.67		FTACD631V335□FLEZ0	TACD2J335□
	3.9	43.2	23.9	22.8	37.5		6.30		FTACD631V395□TLJZ0	TACD2J395□
	4.7		25.9	24.7			6.92		FTACD631V475□TLJZ0	TACD2J475□
	5.6		28.1	26.8			7.55		FTACD631V565□TLJZ0	TACD2J565□
800	0.056	16.2	8.5	8.1	10.0	0.8	2.36	200	FTACD801V563□DLCZ0	TACD2K563□
	0.068		9.0	8.6			2.60		FTACD801V683□DLCZ0	TACD2K683□
	0.082		9.6	9.2			2.85		FTACD801V823□DLCZ0	TACD2K823□
	0.1		10.3	9.8			3.04		FTACD801V104□DLCZ0	TACD2K104□
	0.12		11.0	10.5			3.33		FTACD801V124□DLCZ0	TACD2K124□
	0.15		12.0	11.4			3.72		FTACD801V154□DLCZ0	TACD2K154□
	0.18	18.2	12.4	11.8	12.5		3.56		FTACD801V184□HLGZ0	TACD2K184□
	0.22		13.4	12.8			3.94		FTACD801V224□HLGZ0	TACD2K224□
	0.27		14.6	13.9			4.36		FTACD801V274□HLGZ0	TACD2K274□
	0.33	23.2	13.5	12.9	17.5		3.72		FTACD801V334□ELHZ0	TACD2K334□
	0.39		14.4	13.8			4.05		FTACD801V394□ELHZ0	TACD2K394□
	0.47		15.6	14.9			4.44		FTACD801V474□ELHZ0	TACD2K474□
	0.56		16.8	16.0			4.85		FTACD801V564□ELHZ0	TACD2K564□
	0.68		18.3	17.5			5.34		FTACD801V684□ELHZ0	TACD2K684□
	0.82		19.9	19.0			5.87		FTACD801V824□ELHZ0	TACD2K824□
	1.0	28.2	19.2	18.3	22.5	1.0	5.32		FTACD801V105□FLEZ0	TACD2K105□
	1.2		20.8	19.9			5.83		FTACD801V125□FLEZ0	TACD2K125□
	1.5		23.0	22.0			6.52		FTACD801V155□FLEZ0	TACD2K155□
	1.8		25.1	23.9			7.14		FTACD801V185□FLEZ0	TACD2K185□
	2.2		27.5	26.2			7.89		FTACD801V225□FLEZ0	TACD2K225□
	2.7	43.2	23.8	22.7	37.5		5.85		FTACD801V275□TLJZ0	TACD2K275□
	3.3		26.0	24.8			6.47		FTACD801V335□TLJZ0	TACD2K335□
	3.9		28.0	26.7			7.03		FTACD801V395□TLJZ0	TACD2K395□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

ELECTRONIC EQUIPMENT FILM CAPACITOR

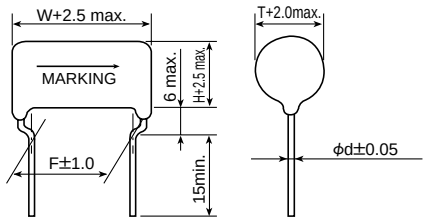
TACD Series

◆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	F	φd				
1000	0.033	16.2	8.9	8.5	10.0	0.8	2.07	250	FTACD102V333□DLCZ0	TACD3A333□
	0.039		9.4	9.0			2.25		FTACD102V393□DLCZ0	TACD3A393□
	0.047		10.0	9.6			2.47		FTACD102V473□DLCZ0	TACD3A473□
	0.056		10.7	10.2			2.70		FTACD102V563□DLCZ0	TACD3A563□
	0.068		11.5	11.0			2.98		FTACD102V683□DLCZ0	TACD3A683□
	0.082		12.4	11.8			3.27		FTACD102V823□DLCZ0	TACD3A823□
	0.1	18.2	12.3	11.7	12.5		3.16		FTACD102V104□HLGZ0	TACD3A104□
	0.12		13.2	12.6			3.46		FTACD102V124□HLGZ0	TACD3A124□
	0.15		14.5	13.8			3.87		FTACD102V154□HLGZ0	TACD3A154□
	0.18	23.2	13.3	12.7	17.5		3.27		FTACD102V184□ELHZ0	TACD3A184□
	0.22		14.4	13.8			3.61		FTACD102V224□ELHZ0	TACD3A224□
	0.27		15.8	15.0			4.00		FTACD102V274□ELHZ0	TACD3A274□
	0.33		17.2	16.4			4.42		FTACD102V334□ELHZ0	TACD3A334□
	0.39		18.5	17.6			4.81		FTACD102V394□ELHZ0	TACD3A394□
	0.47		20.1	19.1			5.28		FTACD102V474□ELHZ0	TACD3A474□
	0.56	28.2	19.2	18.3	22.5	1.0	4.74		FTACD102V564□FLEZ0	TACD3A564□
	0.68		20.9	19.9			5.22		FTACD102V684□FLEZ0	TACD3A684□
	0.82		22.8	21.7			5.73		FTACD102V824□FLEZ0	TACD3A824□
	1.0		24.9	23.7			6.33		FTACD102V105□FLEZ0	TACD3A105□
	1.2		27.1	25.8			6.93		FTACD102V125□FLEZ0	TACD3A125□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

TACC Series

- Maximum operating temperature 105℃.
- Allowable temperature rise 15K max.
- Large capacitance of TACB series.

◆SPECIFICATIONS

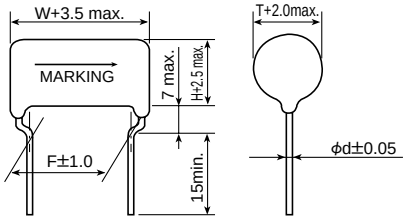
Items	Characteristics				
Category temperature range	-40 to +105℃				
Rated voltage range	450 to 1000Vdc				
Capacitance tolerance	±5% (J) or ±10%(K)				
Voltage proof (Terminal - Terminal)	No degradation, at 150% of rated voltage shall be applied for 60 seconds.				
Dissipation factor (tanδ)	No more than 0.05% : Equal or less than 1μF. No 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 (Vdc)	450	630	800	1000
	Measurement voltage (Vdc)	100	500	500	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 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℃ 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 (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	F	φd	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
450	5.6	33.2	21.0	20.0	27.5	1.0	7.0	115	FTACC451V565□RLFZ0	TACC2W565□
	6.8		22.9	21.9			7.7		FTACC451V685□RLFZ0	TACC2W685□
	8.2		25.0	23.8			8.5		FTACC451V825□RLFZ0	TACC2W825□
	10		27.4	26.1			9.4		FTACC451V106□RLFZ0	TACC2W106□
	12	43.2	25.7	24.5	37.5		7.5		FTACC451V126□TLJZ0	TACC2W126□
	15		28.5	27.1			8.4		FTACC451V156□TLJZ0	TACC2W156□
	18	53.2	27.4	26.1	47.5		7.3		FTACC451V186□ULWZ0	TACC2W186□
630	3.3	33.2	21.5	20.4	27.5	1.0	5.6	150	FTACC631V335□RLFZ0	TACC2J335□
	3.9		23.2	22.1			6.1		FTACC631V395□RLFZ0	TACC2J395□
	4.7		25.2	24.0			6.7		FTACC631V475□RLFZ0	TACC2J475□
	5.6		27.4	26.1			7.3		FTACC631V565□RLFZ0	TACC2J565□
	6.8	43.2	25.8	24.6	37.5		5.9		FTACC631V685□TLJZ0	TACC2J685□
	8.2		28.0	26.7			6.5		FTACC631V825□TLJZ0	TACC2J825□
	10	53.2	27.3	26.0	47.5		5.6		FTACC631V106□ULWZ0	TACC2J106□
800	2.2	33.2	21.9	20.8	27.5	1.0	4.5	175	FTACC801V225□RLFZ0	TACC2K225□
	2.7		24.0	22.9			5.0		FTACC801V275□RLFZ0	TACC2K275□
	3.3		26.3	25.1			5.6		FTACC801V335□RLFZ0	TACC2K335□
	3.9		28.5	27.1			6.0		FTACC801V395□RLFZ0	TACC2K395□
	4.7	43.2	26.8	25.5	37.5		4.9		FTACC801V475□TLJZ0	TACC2K475□
	5.6	53.2	25.7	24.5	47.5		4.2		FTACC801V565□ULWZ0	TACC2K565□
	6.8		28.0	26.7			4.6		FTACC801V685□ULWZ0	TACC2K685□
1000	1.0	33.2	23.4	22.3	27.5	1.0	3.9	200	FTACC102V105□RLFZ0	TACC3A105□
	1.2		25.5	24.3			4.2		FTACC102V125□RLFZ0	TACC3A125□
	1.5		28.2	26.9			4.7		FTACC102V155□RLFZ0	TACC3A155□
	1.8	43.2	26.4	25.2	37.5		3.8		FTACC102V185□TLJZ0	TACC3A185□
	2.2	53.2	25.8	24.6	47.5		3.3		FTACC102V225□ULWZ0	TACC3A225□
	2.7		28.2	26.9			3.7		FTACC102V275□ULWZ0	TACC3A275□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)



CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

TACB Series

- Maximum operating temperature 105℃.
- Allowable temperature rise 15K max.
- A little hum is produced when applied AC voltage.

◆SPECIFICATIONS

Items	Characteristics
Category temperature range	-40 to +105℃
Rated voltage range	250 to 800Vdc
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)	No more than 0.05% : Equal or less than 1μF. No 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 (Vdc)	250	315	400	630	800
Measurement voltage (Vdc)	100	100	100	500	500

Endurance

The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 105℃.

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℃ 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 0.3μF.
Dissipation factor (tanδ)	No more than initial specification at 1kHz.
Capacitance change	Within ±5% of initial value.

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	F	φd	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
250	0.33	16.2	8.6	8.3	10.0	0.8	3.08	125	FTACB251V334□DLCZ0	TACB2E334□
	0.39		9.2	8.8			3.34		FTACB251V394□DLCZ0	TACB2E394□
	0.47		9.7	9.3			3.67		FTACB251V474□DLCZ0	TACB2E474□
	0.56		10.3	9.8			4.01		FTACB251V564□DLCZ0	TACB2E564□
	0.68		11.1	10.6			4.42		FTACB251V684□DLCZ0	TACB2E684□
	0.82		11.9	11.4			4.85		FTACB251V824□DLCZ0	TACB2E824□
	1.0		12.9	12.3			5.35		FTACB251V105□DLCZ0	TACB2E105□
	1.2	18.2	12.9	12.3	12.5		5.03		FTACB251V125□HLGZ0	TACB2E125□
	1.5		14.1	13.5			5.63		FTACB251V155□HLGZ0	TACB2E155□
	1.8		15.2	14.5			6.17		FTACB251V185□HLGZ0	TACB2E185□
	2.2	23.2	14.5	13.8	17.5		5.04		FTACB251V225□ELHZ0	TACB2E225□
	2.7		15.7	15.0			5.58		FTACB251V275□ELHZ0	TACB2E275□
	3.3		17.1	16.3			6.17		FTACB251V335□ELHZ0	TACB2E335□
	3.9		18.4	17.5			6.71		FTACB251V395□ELHZ0	TACB2E395□
	4.7		20.0	19.0			7.36		FTACB251V475□ELHZ0	TACB2E475□
	5.6	28.2	19.3	18.4	22.5	1.0	6.38		FTACB251V565□FLEZ0	TACB2E565□
	6.8		21.0	20.0			7.03		FTACB251V685□FLEZ0	TACB2E685□
	8.2		22.1	21.9			7.72		FTACB251V825□FLEZ0	TACB2E825□
	10		25.2	24.0			8.52		FTACB251V106□FLEZ0	TACB2E106□
	12		27.3	26.0			9.34		FTACB251V126□FLEZ0	TACB2E126□
	15	43.2	24.2	23.1	37.5		6.45		FTACB251V156□TLJZ0	TACB2E156□
	18		26.3	25.1			7.07		FTACB251V186□TLJZ0	TACB2E186□
	22		28.9	27.5			7.81		FTACB251V226□TLJZ0	TACB2E226□
315	0.22	16.2	8.7	8.3	10.0	0.8	2.81	150	FTACB3B1V224□DLCZ0	TACB2F224□
	0.27		9.3	9.0			3.11		FTACB3B1V274□DLCZ0	TACB2F274□
	0.33		10.0	9.6			3.44		FTACB3B1V334□DLCZ0	TACB2F334□
	0.39		10.7	10.2			3.74		FTACB3B1V394□DLCZ0	TACB2F394□
	0.47		11.4	10.9			4.10		FTACB3B1V474□DLCZ0	TACB2F474□
	0.56		12.1	11.6			4.48		FTACB3B1V564□DLCZ0	TACB2F564□
	0.68		13.2	12.6			4.94		FTACB3B1V684□DLCZ0	TACB2F684□
	0.82	18.2	13.2	12.6	12.5		4.65		FTACB3B1V824□HLGZ0	TACB2F824□
	1.0		14.4	13.7			5.14		FTACB3B1V105□HLGZ0	TACB2F105□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

ELECTRONIC EQUIPMENT FILM CAPACITOR

TACB 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	F	φd				
	1.2		13.4	12.8			4.16		FTACB3B1V125□ELHZ0	TACB2F125□
	1.5		14.8	14.1			4.65		FTACB3B1V155□ELHZ0	TACB2F155□
	1.8	23.2	15.9	15.2	17.5	0.8	5.09		FTACB3B1V185□ELHZ0	TACB2F185□
	2.2		17.3	16.5			5.63		FTACB3B1V225□ELHZ0	TACB2F225□
	2.7		19.0	18.1			6.24		FTACB3B1V275□ELHZ0	TACB2F275□
315	3.3		18.6	17.7			5.47	150	FTACB3B1V335□FLEZ0	TACB2F335□
	3.9		20.0	19.0			5.95		FTACB3B1V395□FLEZ0	TACB2F395□
	4.7	28.2	21.8	20.7	22.5	1.0	6.53		FTACB3B1V475□FLEZ0	TACB2F475□
	5.6		23.6	22.5			7.13		FTACB3B1V565□FLEZ0	TACB2F565□
	6.8		25.8	24.6			7.86		FTACB3B1V685□FLEZ0	TACB2F685□
	8.2		28.1	26.8			8.63		FTACB3B1V825□FLEZ0	TACB2F825□
	0.1		9.2	8.8			2.40		FTACB401V104□DLCZ0	TACB2G104□
	0.12		9.7	9.3			2.62		FTACB401V124□DLCZ0	TACB2G124□
	0.15	16.2	10.5	10.1	10.0		2.93		FTACB401V154□DLCZ0	TACB2G154□
	0.18		11.2	10.7			3.21		FTACB401V184□DLCZ0	TACB2G184□
	0.22		12.1	11.6			3.55		FTACB401V224□DLCZ0	TACB2G224□
	0.27		13.1	12.5			3.94		FTACB401V274□DLCZ0	TACB2G274□
	0.33		13.2	12.6			3.71		FTACB401V334□HLGZ0	TACB2G334□
	0.39	18.2	14.1	13.5	12.5	0.8	4.04		FTACB401V394□HLGZ0	TACB2G394□
	0.47		15.2	14.5			4.43		FTACB401V474□HLGZ0	TACB2G474□
	0.56		14.1	13.5			3.54		FTACB401V564□ELHZ0	TACB2G564□
	0.68		15.3	14.6			3.90		FTACB401V684□ELHZ0	TACB2G684□
400	0.82	23.2	16.6	15.8	17.5		4.29	175	FTACB401V824□ELHZ0	TACB2G824□
	1.0		18.1	17.2			4.73		FTACB401V105□ELHZ0	TACB2G105□
	1.2		19.6	18.6			5.19		FTACB401V125□ELHZ0	TACB2G125□
	1.5		19.2	18.3			4.58		FTACB401V155□FLEZ0	TACB2G155□
	1.8		20.8	19.8			5.02		FTACB401V185□FLEZ0	TACB2G185□
	2.2	28.2	22.8	21.8	22.5		5.55		FTACB401V225□FLEZ0	TACB2G225□
	2.7		25.1	23.9		1.0	6.15		FTACB401V275□FLEZ0	TACB2G275□
	3.3		27.5	26.2			6.79		FTACB401V335□FLEZ0	TACB2G335□
	3.9		23.9	22.8			4.57		FTACB401V395□TLJZ0	TACB2G395□
	4.7	43.2	25.9	24.7	37.5		5.02		FTACB401V475□TLJZ0	TACB2G475□
	5.6		28.1	26.8			5.48		FTACB401V565□TLJZ0	TACB2G565□
	0.056		8.5	8.2			1.96		FTACB631V563□DLCZ0	TACB2J563□
	0.068		9.1	8.7			2.16		FTACB631V683□DLCZ0	TACB2J683□
	0.082	16.2	9.6	9.2	10.0		2.38		FTACB631V823□DLCZ0	TACB2J823□
	0.1		10.3	9.8			2.62		FTACB631V104□DLCZ0	TACB2J104□
	0.12		11.0	10.5			2.88		FTACB631V124□DLCZ0	TACB2J124□
	0.15		11.9	11.4			3.21		FTACB631V154□DLCZ0	TACB2J154□
	0.18		12.3	11.8			3.10		FTACB631V184□HLGZ0	TACB2J184□
	0.22	18.2	13.4	12.8	12.5	0.8	3.42		FTACB631V224□HLGZ0	TACB2J224□
	0.27		14.6	13.9			3.79		FTACB631V274□HLGZ0	TACB2J274□
	0.33		13.5	12.9			3.04		FTACB631V334□ELHZ0	TACB2J334□
630	0.39		14.5	13.8			3.30		FTACB631V394□ELHZ0	TACB2J394□
	0.47	23.2	15.6	14.9	17.5		3.63	200	FTACB631V474□ELHZ0	TACB2J474□
	0.56		16.8	16.0			3.96		FTACB631V564□ELHZ0	TACB2J564□
	0.68		18.3	17.4			4.36		FTACB631V684□ELHZ0	TACB2J684□
	0.82		19.9	18.9			4.79		FTACB631V824□ELHZ0	TACB2J824□
	1.0		19.2	18.3			4.16		FTACB631V105□FLEZ0	TACB2J105□
	1.2		20.8	19.8			4.55		FTACB631V125□FLEZ0	TACB2J125□
	1.5	28.2	23.0	22.0	22.5		5.09		FTACB631V155□FLEZ0	TACB2J155□
	1.8		25.1	23.9		1.0	5.58		FTACB631V185□FLEZ0	TACB2J185□
	2.2		27.5	26.2			6.17		FTACB631V225□FLEZ0	TACB2J225□
	2.7		23.8	22.7			4.17		FTACB631V275□TLJZ0	TACB2J275□
	3.3	43.2	26.0	24.8	37.5		4.61		FTACB631V335□TLJZ0	TACB2J335□
	3.9		28.0	26.7			5.01		FTACB631V395□TLJZ0	TACB2J395□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

ELECTRONIC EQUIPMENT FILM CAPACITOR

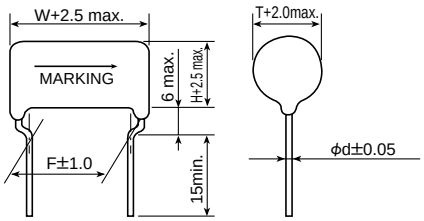
TACB Series

◆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	F	φd				
800	0.033	16.2	9.0	8.6	10.0	0.8	1.81	250	FTACB801V333□DLCZ0	TACB2K333□
	0.039		9.5	9.1			1.97		FTACB801V393□DLCZ0	TACB2K393□
	0.047		10.1	9.7			2.16		FTACB801V473□DLCZ0	TACB2K473□
	0.056		10.8	10.3			2.36		FTACB801V563□DLCZ0	TACB2K563□
	0.068		11.5	11.0			2.60		FTACB801V683□DLCZ0	TACB2K683□
	0.082		12.5	11.9			2.85		FTACB801V823□DLCZ0	TACB2K823□
	0.1	18.2	12.3	11.8	12.5		2.67		FTACB801V104□HLGZ0	TACB2K104□
	0.12		13.3	12.7			2.92		FTACB801V124□HLGZ0	TACB2K124□
	0.15		14.6	13.9			3.26		FTACB801V154□HLGZ0	TACB2K154□
	0.18	23.2	13.4	12.8	17.5		2.59		FTACB801V184□ELHZ0	TACB2K184□
	0.22		14.5	13.8			2.87		FTACB801V224□ELHZ0	TACB2K224□
	0.27		15.8	15.1			3.17		FTACB801V274□ELHZ0	TACB2K274□
	0.33		17.2	16.4			3.51		FTACB801V334□ELHZ0	TACB2K334□
	0.39		18.5	17.6			3.82		FTACB801V394□ELHZ0	TACB2K394□
	0.47		20.1	19.1			4.19		FTACB801V474□ELHZ0	TACB2K474□
	0.56	28.2	19.2	18.3	22.5	1.0	3.59		FTACB801V564□FLEZ0	TACB2K564□
	0.68		20.9	19.9			3.96		FTACB801V684□FLEZ0	TACB2K684□
	0.82		22.8	21.8			4.35		FTACB801V824□FLEZ0	TACB2K824□
	1.0		25.0	23.8			4.80		FTACB801V105□FLEZ0	TACB2K105□
	1.2		27.2	25.9			5.26		FTACB801V125□FLEZ0	TACB2K125□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

HACD Series

- Maximum operating temperature 105℃.
- Allowable temperature rise 15K max.
- Downsizing of HACB series.

◆SPECIFICATIONS

Items	Characteristics								
Category temperature range	-40 to +105℃								
Rated voltage range	630 to 4000Vdc								
Capacitance tolerance	±5%(J)								
Voltage proof (Terminal - Terminal)	No degradation, at 150% of rated voltage shall be applied for 60 seconds.								
Dissipation factor (tanδ)	No more than 0.05% : Equal or less than 1μF. No 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 (Vdc)	630	1000	1250	1600	2000	2500	3150	4000
	Measurement voltage (Vdc)	500	1000	1000	1000	1000	1000	1000	1000
Endurance	The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 105℃.								
	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)	Not 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℃ 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)	Not more than initial specification at 1kHz.							
	Capacitance change	Within ±5% of initial value.							

◆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				
630	0.047	17.7	9.8	9.3	12.5	0.8	2.65	250	FHACD631V473J0LGZ0	HACD2J473J
	0.056		10.4	10.0			2.89		FHACD631V563J0LGZ0	HACD2J563J
	0.068		11.0	10.5			3.19		FHACD631V683J0LGZ0	HACD2J683J
	0.082		11.6	11.1			3.50		FHACD631V823J0LGZ0	HACD2J823J
	0.1		12.3	11.7			3.86		FHACD631V104J0LGZ0	HACD2J104J
	0.12		13.1	12.5			4.23		FHACD631V124J0LGZ0	HACD2J124J
	0.15		14.1	13.5			4.73		FHACD631V154J0LGZ0	HACD2J154J
	0.18		15.1	14.4			5.18		FHACD631V184J0LGZ0	HACD2J184J
	0.22	22.7	13.8	13.2	17.5		4.31		FHACD631V224J1LHZ0	HACD2J224J
	0.27		14.9	14.2			4.78		FHACD631V274J1LHZ0	HACD2J274J
	0.33		16.1	15.3			5.28		FHACD631V334J1LHZ0	HACD2J334J
	0.39		17.1	16.3			5.74		FHACD631V394J1LHZ0	HACD2J394J
	0.47		18.5	17.6			6.30		FHACD631V474J1LHZ0	HACD2J474J
	0.56		19.9	18.9			6.88		FHACD631V564J1LHZ0	HACD2J564J
	0.68	27.7	19.0	18.1	22.5	1.0	6.19		FHACD631V684J2LEZ0	HACD2J684J
	0.82		20.5	19.6			6.79		FHACD631V824J2LEZ0	HACD2J824J
	1.0		22.3	21.3			7.50		FHACD631V105J2LEZ0	HACD2J105J
	1.2		24.2	23.0			8.22		FHACD631V125J2LEZ0	HACD2J125J
	1.5		26.7	25.4			9.19		FHACD631V155J2LEZ0	HACD2J155J
1000	0.033	17.7	10.0	9.6	12.5	0.8	2.43	270	FHACD102V333J0LGZ0	HACD3A333J
	0.039		10.4	10.0			2.64		FHACD102V393J0LGZ0	HACD3A393J
	0.047		11.0	10.5			2.90		FHACD102V473J0LGZ0	HACD3A473J
	0.056		11.5	11.0			3.17		FHACD102V563J0LGZ0	HACD3A563J
	0.068		12.2	11.7			3.49		FHACD102V683J0LGZ0	HACD3A683J
	0.082		13.0	12.4			3.83		FHACD102V823J0LGZ0	HACD3A823J
	0.1		13.9	13.3			4.23		FHACD102V104J0LGZ0	HACD3A104J
	0.12		14.9	14.2			4.64		FHACD102V124J0LGZ0	HACD3A124J
	0.15	22.7	13.7	13.1	17.5		3.90		FHACD102V154J1LHZ0	HACD3A154J
	0.18		14.7	14.0			4.27		FHACD102V184J1LHZ0	HACD3A184J
	0.22		15.8	15.1			4.72		FHACD102V224J1LHZ0	HACD3A224J
	0.27		17.1	16.3			5.23		FHACD102V274J1LHZ0	HACD3A274J
	0.33		18.6	17.7			5.79		FHACD102V334J1LHZ0	HACD3A334J
	0.39		19.9	19.0			6.29		FHACD102V394J1LHZ0	HACD3A394J

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

CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

HACD 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	F	φd				
1000	0.47	27.7	18.9	18.0	22.5	1.0	5.63	270	FHACD102V474J2LEZ0	HACD3A474J
	0.56		20.4	19.4			6.15		FHACD102V564J2LEZ0	HACD3A564J
	0.68		22.1	21.1			6.78		FHACD102V684J2LEZ0	HACD3A684J
	0.82		24.0	22.9			7.44		FHACD102V824J2LEZ0	HACD3A824J
	1.0		26.2	25.0			8.22		FHACD102V105J2LEZ0	HACD3A105J
	1.2		28.5	27.1			9.00		FHACD102V125J2LEZ0	HACD3A125J
1250	0.018	17.7	9.7	9.3	12.5	0.8	2.04	300	FHACD1C2V183J0LGZ0	HACD3B183J
	0.022		10.4	9.9			2.25		FHACD1C2V223J0LGZ0	HACD3B223J
	0.027		11.0	10.5			2.50		FHACD1C2V273J0LGZ0	HACD3B273J
	0.033		11.6	11.1			2.76		FHACD1C2V333J0LGZ0	HACD3B333J
	0.039		12.3	11.7			3.00		FHACD1C2V393J0LGZ0	HACD3B393J
	0.047		13.0	12.4			3.29		FHACD1C2V473J0LGZ0	HACD3B473J
	0.056		13.8	13.2			3.60		FHACD1C2V563J0LGZ0	HACD3B563J
	0.068		14.8	14.2			3.96		FHACD1C2V683J0LGZ0	HACD3B683J
	0.082	22.7	13.3	12.7	17.5		3.24		FHACD1C2V823J1LHZ0	HACD3B823J
	0.1		14.3	13.6			3.57		FHACD1C2V104J1LHZ0	HACD3B104J
	0.12		15.3	14.6			3.91		FHACD1C2V124J1LHZ0	HACD3B124J
	0.15		16.7	15.9			4.38		FHACD1C2V154J1LHZ0	HACD3B154J
	0.18		17.9	17.1			4.79		FHACD1C2V184J1LHZ0	HACD3B184J
	0.22		19.5	18.6			5.30		FHACD1C2V224J1LHZ0	HACD3B224J
	0.27	27.7	18.5	17.7	22.5	1.0	4.77		FHACD1C2V274J2LEZ0	HACD3B274J
	0.33		20.1	19.2			5.28		FHACD1C2V334J2LEZ0	HACD3B334J
	0.39		21.6	20.6			5.74		FHACD1C2V394J2LEZ0	HACD3B394J
	0.47		23.4	22.3			6.30		FHACD1C2V474J2LEZ0	HACD3B474J
	0.56		25.3	24.1			6.87		FHACD1C2V564J2LEZ0	HACD3B564J
	0.68		27.6	26.3			7.58		FHACD1C2V684J2LEZ0	HACD3B684J
	0.82	42.7	23.2	22.1	37.5		5.55		FHACD1C2V824JTLJZ0	HACD3B824J
	1.0		25.4	24.2			6.13		FHACD1C2V105JTLJZ0	HACD3B105J
	1.2		27.5	26.2			6.72		FHACD1C2V125JTLJZ0	HACD3B125J
1600	0.0068	19.7	10.0	9.5	15.0	0.8	1.72	350	FHACD162V682JKLDZ0	HACD3C682J
	0.0082		10.6	10.1			1.89		FHACD162V822JKLDZ0	HACD3C822J
	0.01		11.2	10.6			2.09		FHACD162V103JKLDZ0	HACD3C103J
	0.012		11.8	11.2			2.29		FHACD162V123JKLDZ0	HACD3C123J
	0.015		12.6	12.0			2.56		FHACD162V153JKLDZ0	HACD3C153J
	0.018		13.4	12.8			2.80		FHACD162V183JKLDZ0	HACD3C183J
	0.022		14.4	13.7			3.10		FHACD162V223JKLDZ0	HACD3C223J
	0.027		15.0	14.3			3.43		FHACD162V273JKLDZ0	HACD3C273J
	0.033		16.3	15.5			3.80		FHACD162V333JKLDZ0	HACD3C333J
	0.039	22.7	13.0	12.4	17.5		2.60		FHACD162V393J1LHZ0	HACD3C393J
	0.047		13.8	13.2			2.85		FHACD162V473J1LHZ0	HACD3C473J
	0.056		14.7	14.0			3.11		FHACD162V563J1LHZ0	HACD3C563J
	0.068		15.8	15.1			3.43		FHACD162V683J1LHZ0	HACD3C683J
	0.082		17.0	16.2			3.77		FHACD162V823J1LHZ0	HACD3C823J
	0.1		18.4	17.6			4.16		FHACD162V104J1LHZ0	HACD3C104J
	0.12	27.7	17.2	16.4	22.5	1.0	3.68		FHACD162V124J2LEZ0	HACD3C124J
	0.15		18.9	18.0			4.12		FHACD162V154J2LEZ0	HACD3C154J
	0.18		20.4	19.4			4.51		FHACD162V184J2LEZ0	HACD3C184J
	0.22		22.2	21.1			4.99		FHACD162V224J2LEZ0	HACD3C224J
	0.27		24.2	23.1			5.53		FHACD162V274J2LEZ0	HACD3C274J
	0.33		26.5	25.3			6.11		FHACD162V334J2LEZ0	HACD3C334J
2000	0.0033	19.7	9.3	8.9	15.0	0.8	1.39	350	FHACD202V332JKLDZ0	HACD3D332J
	0.0039		9.7	9.2			1.52		FHACD202V392JKLDZ0	HACD3D392J
	0.0047		10.2	9.7			1.66		FHACD202V472JKLDZ0	HACD3D472J
	0.0056		10.9	10.4			1.82		FHACD202V562JKLDZ0	HACD3D562J
	0.0068		11.8	11.2			2.00		FHACD202V682JKLDZ0	HACD3D682J
	0.0082		12.6	12.0			2.20		FHACD202V822JKLDZ0	HACD3D822J
	0.01		13.5	12.9			2.43		FHACD202V103JKLDZ0	HACD3D103J
	0.012		14.4	13.7			2.66		FHACD202V123JKLDZ0	HACD3D123J
	0.015		15.6	14.9			2.97		FHACD202V153JKLDZ0	HACD3D153J
	0.018		16.7	16.0			3.26		FHACD202V183JKLDZ0	HACD3D183J

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

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

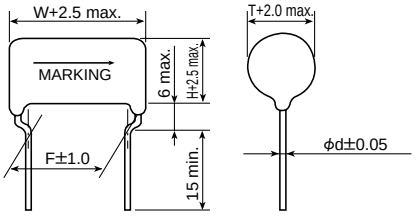
HACD Series

◆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	F	φd				
2000	0.022	22.7	13.1	12.5	17.5	0.8	2.27	350	FHACD202V223J1LHZ0	HACD3D223J
	0.027		14.0	13.4			2.51		FHACD202V273J1LHZ0	HACD3D273J
	0.033		15.1	14.4			2.78		FHACD202V333J1LHZ0	HACD3D333J
	0.039		16.1	15.3			3.02		FHACD202V393J1LHZ0	HACD3D393J
	0.047		17.3	16.5			3.32		FHACD202V473J1LHZ0	HACD3D473J
	0.056		18.6	17.7			3.62		FHACD202V563J1LHZ0	HACD3D563J
	0.068	27.7	17.5	16.6	22.5	1.0	3.22		FHACD202V683J2LEZ0	HACD3D683J
	0.082		18.8	18.0			3.54		FHACD202V823J2LEZ0	HACD3D823J
	0.1		20.5	19.5			3.91		FHACD202V104J2LEZ0	HACD3D104J
	0.12		22.1	21.1			4.28		FHACD202V124J2LEZ0	HACD3D124J
	0.15		24.4	23.2			4.79		FHACD202V154J2LEZ0	HACD3D154J
	0.18		26.4	25.2			5.24		FHACD202V184J2LEZ0	HACD3D184J
	0.22	42.7	22.6	21.5	37.5		3.93		FHACD202V224JTLJZ0	HACD3D224J
	0.27		24.7	23.5			4.35		FHACD202V274JTLJZ0	HACD3D274J
	0.33		27.0	25.7			4.81		FHACD202V334JTLJZ0	HACD3D334J
2500	0.015	34.7	12.7	12.1	30.0	1.0	2.11	500	FHACD252V153JRLQZ0	HACD3E153J
	0.018		13.6	13.0			2.31		FHACD252V183JRLQZ0	HACD3E183J
	0.022		14.8	14.1			2.55		FHACD252V223JRLQZ0	HACD3E223J
	0.027		16.1	15.3			2.83		FHACD252V273JRLQZ0	HACD3E273J
	0.033		17.4	16.6			3.13		FHACD252V333JRLQZ0	HACD3E333J
	0.039		18.8	17.9			3.40		FHACD252V393JRLQZ0	HACD3E393J
	0.047		20.4	19.4			3.73		FHACD252V473JRLQZ0	HACD3E473J
	0.056		22.0	21.0			4.07		FHACD252V563JRLQZ0	HACD3E563J
	0.068		24.0	22.9			4.49		FHACD252V683JRLQZ0	HACD3E683J
	0.082		26.1	24.9			4.93		FHACD252V823JRLQZ0	HACD3E823J
	0.1		28.7	27.3			5.44		FHACD252V104JRLQZ0	HACD3E104J
3150	0.0068	34.7	12.5	11.9	30.0	1.0	1.64	630	FHACD3B2V682JRLQZ0	HACD3F682J
	0.0082		13.3	12.7			1.80		FHACD3B2V822JRLQZ0	HACD3F822J
	0.01		14.5	13.8			1.99		FHACD3B2V103JRLQZ0	HACD3F103J
	0.012		15.5	14.8			2.18		FHACD3B2V123JRLQZ0	HACD3F123J
	0.015		17.1	16.3			2.44		FHACD3B2V153JRLQZ0	HACD3F153J
	0.018		18.5	17.6			2.67		FHACD3B2V183JRLQZ0	HACD3F183J
	0.022		20.2	19.2			2.95		FHACD3B2V223JRLQZ0	HACD3F223J
	0.027		22.1	21.1			3.27		FHACD3B2V273JRLQZ0	HACD3F273J
	0.033		24.1	23.0			3.62		FHACD3B2V333JRLQZ0	HACD3F333J
	0.039		26.0	24.8			3.93		FHACD3B2V393JRLQZ0	HACD3F393J
	0.047		28.3	27.0			4.31		FHACD3B2V473JRLQZ0	HACD3F473J
4000	0.0039	34.7	12.0	11.5	30.0	1.0	1.63	720	FHACD402V392JRLQZ0	HACD3G392J
	0.0047		13.0	12.4			1.79		FHACD402V472JRLQZ0	HACD3G472J
	0.0056		13.8	13.2			1.95		FHACD402V562JRLQZ0	HACD3G562J
	0.0068		15.0	14.3			2.15		FHACD402V682JRLQZ0	HACD3G682J
	0.0082		16.2	15.4			2.36		FHACD402V822JRLQZ0	HACD3G822J
	0.01		17.6	16.8			2.60		FHACD402V103JRLQZ0	HACD3G103J
	0.012		19.0	18.1			2.85		FHACD402V123JRLQZ0	HACD3G123J
	0.015		21.0	20.0			3.19		FHACD402V153JRLQZ0	HACD3G153J
	0.018		22.8	21.8			3.49		FHACD402V183JRLQZ0	HACD3G183J
	0.022		25.0	23.8			3.86		FHACD402V223JRLQZ0	HACD3G223J
	0.027		27.4	26.1			4.28		FHACD402V273JRLQZ0	HACD3G273J

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

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

HACB Series

- Maximum operating temperature 105℃.
- Allowable temperature rise 15K max.
- A little hum is produced when applied AC voltage.

◆SPECIFICATIONS

Items	Characteristics
Category temperature range	-40 to +105℃
Rated voltage range	630 to 4000Vdc
Capacitance tolerance	±3% (H) or ±5%(J) : Equal or less than 2000Vdc. ±5% (J) or ±10%(K) : Equal or more than 3150Vdc.
Voltage proof (Terminal - Terminal)	No degradation, at 150% of rated voltage shall be applied for 60 seconds.
Dissipation factor (tanδ)	No more than 0.05% : Equal or less than 1μF. No 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 (Vdc)	630	1000	1250	1650	2000	3150	4000
Measurement voltage (Vdc)	500	1000	1000	1000	1000	1000	1000

Endurance

The following specifications shall be satisfied, after 1000hrs with applying rated voltage×125% at 105℃.

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)	Not 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℃ 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)	Not more than initial specification at 1kHz.
Capacitance change	Within ±5% of initial value.

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	F	φd	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
630	0.033	17.7	8.7	8.3	12.5	0.8	2.54	300	FHACB631V333□0LGZ0	HACB2J333□
	0.039		9.3	8.8			2.76		FHACB631V393□0LGZ0	HACB2J393□
	0.047		9.8	9.3			3.04		FHACB631V473□0LGZ0	HACB2J473□
	0.056		10.4	10.0			3.31		FHACB631V563□0LGZ0	HACB2J563□
	0.068		11.3	10.8			3.65		FHACB631V683□0LGZ0	HACB2J683□
	0.082		12.1	11.6			4.01		FHACB631V823□0LGZ0	HACB2J823□
	0.1		13.1	12.5			4.42		FHACB631V104□0LGZ0	HACB2J104□
	0.12		14.0	13.4			4.84		FHACB631V124□0LGZ0	HACB2J124□
	0.15	22.7	12.9	12.3	17.5		3.83		FHACB631V154□1LHZ0	HACB2J154□
	0.18		13.8	13.2			4.19		FHACB631V184□1LHZ0	HACB2J184□
	0.22		15.1	14.4			4.64		FHACB631V224□1LHZ0	HACB2J224□
	0.27		16.5	15.7			5.14		FHACB631V274□1LHZ0	HACB2J274□
	0.33		18.0	17.1			5.68		FHACB631V334□1LHZ0	HACB2J334□
	0.39		19.3	18.4			6.17		FHACB631V394□1LHZ0	HACB2J394□
	0.47	27.7	18.4	17.5	22.5	1.0	5.26		FHACB631V474□2LEZ0	HACB2J474□
	0.56		19.9	18.9			5.74		FHACB631V564□2LEZ0	HACB2J564□
	0.68		21.7	20.6			6.33		FHACB631V684□2LEZ0	HACB2J684□
	0.82		23.6	22.5			6.95		FHACB631V824□2LEZ0	HACB2J824□
	1.0		25.8	24.6			7.67		FHACB631V105□2LEZ0	HACB2J105□
	1.2		28.1	26.8			8.41		FHACB631V125□2LEZ0	HACB2J125□
1000	0.018	17.7	8.6	8.3	12.5	0.8	2.18	350	FHACB102V183□0LGZ0	HACB3A183□
	0.022		9.3	8.8			2.41		FHACB102V223□0LGZ0	HACB3A223□
	0.027		9.8	9.5			2.66		FHACB102V273□0LGZ0	HACB3A273□
	0.033		10.7	10.2			2.95		FHACB102V333□0LGZ0	HACB3A333□
	0.039		11.3	10.8			3.21		FHACB102V393□0LGZ0	HACB3A393□
	0.047		12.1	11.6			3.52		FHACB102V473□0LGZ0	HACB3A473□
	0.056		13.0	12.4			3.84		FHACB102V563□0LGZ0	HACB3A563□
	0.068		14.0	13.4			4.23		FHACB102V683□0LGZ0	HACB3A683□
	0.082	22.7	12.5	11.9	17.5		3.23		FHACB102V823□1LHZ0	HACB3A823□
	0.1		13.5	12.9			3.56		FHACB102V104□1LHZ0	HACB3A104□
	0.12		14.6	13.9			3.91		FHACB102V124□1LHZ0	HACB3A124□
	0.15		16.1	15.3			4.36		FHACB102V154□1LHZ0	HACB3A154□
	0.18		17.3	16.5			4.79		FHACB102V184□1LHZ0	HACB3A184□
	0.22		18.9	18.0			5.29		FHACB102V224□1LHZ0	HACB3A224□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, H : ±3%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

HACB 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	F	φd				
1000	0.27	27.7	18.0	17.1	22.5	1.0	4.51	350	FHACB102V274□2LEZ0	HACB3A274□
	0.33		19.6	18.6			4.99		FHACB102V334□2LEZ0	HACB3A334□
	0.39		21.1	20.1			5.43		FHACB102V394□2LEZ0	HACB3A394□
	0.47		22.9	21.9			5.96		FHACB102V474□2LEZ0	HACB3A474□
	0.56		25.0	23.8			6.51		FHACB102V564□2LEZ0	HACB3A564□
	0.68		27.3	26.0			7.16		FHACB102V684□2LEZ0	HACB3A684□
	0.82	42.7	22.8	21.8	37.5		4.70		FHACB102V824□4LJZ0	HACB3A824□
	1.0		25.0	23.8			5.19		FHACB102V105□4LJZ0	HACB3A105□
	1.2		27.1	25.8			5.68		FHACB102V125□4LJZ0	HACB3A125□
1250	0.012	17.7	8.5	8.2	12.5	0.8	1.95	400	FHACB1C2V123□0LGZ0	HACB3B123□
	0.015		9.2	8.8			2.18		FHACB1C2V153□0LGZ0	HACB3B153□
	0.018		9.8	9.3			2.39		FHACB1C2V183□0LGZ0	HACB3B183□
	0.022		10.5	10.1			2.64		FHACB1C2V223□0LGZ0	HACB3B223□
	0.027		11.3	10.8			2.92		FHACB1C2V273□0LGZ0	HACB3B273□
	0.033		12.2	11.7			3.23		FHACB1C2V333□0LGZ0	HACB3B333□
	0.039		13.1	12.5			3.51		FHACB1C2V393□0LGZ0	HACB3B393□
	0.047		14.0	13.4			3.86		FHACB1C2V473□0LGZ0	HACB3B473□
	0.056	22.7	13.3	12.7	17.5		3.11		FHACB1C2V563□1LHZ0	HACB3B563□
	0.068		14.4	13.7			3.43		FHACB1C2V683□1LHZ0	HACB3B683□
	0.082		15.5	14.8			3.76		FHACB1C2V823□1LHZ0	HACB3B823□
	0.1		16.9	16.1			4.16		FHACB1C2V104□1LHZ0	HACB3B104□
	0.12		18.4	17.5			4.56		FHACB1C2V124□1LHZ0	HACB3B124□
	0.15	27.7	17.2	16.4	22.5	1.0	3.84		FHACB1C2V154□2LEZ0	HACB3B154□
	0.18		18.6	17.7			4.21		FHACB1C2V184□2LEZ0	HACB3B184□
	0.22		20.3	19.3			4.66		FHACB1C2V224□2LEZ0	HACB3B224□
	0.27		22.3	21.3			5.16		FHACB1C2V274□2LEZ0	HACB3B274□
	0.33		24.4	23.3			5.70		FHACB1C2V334□2LEZ0	HACB3B334□
	0.39		26.3	25.1			6.20		FHACB1C2V394□2LEZ0	HACB3B394□
	0.47	42.7	21.9	20.8	37.5		4.03		FHACB1C2V474□4LJZ0	HACB3B474□
	0.56		23.7	22.6			4.40		FHACB1C2V564□4LJZ0	HACB3B564□
	0.68		25.8	24.6			4.85		FHACB1C2V684□4LJZ0	HACB3B684□
	0.82		27.6	26.3			5.32		FHACB1C2V824□4LJZ0	HACB3B824□
	1.0	52.7	27.0	25.7	47.5		4.60		FHACB1C2V105□ULWZ0	HACB3B105□
1600	0.0047	19.7	8.8	8.5	15.0	0.8	1.32	450	FHACB162V472□KLDZ0	HACB3C472□
	0.0056		9.3	9.0			1.58		FHACB162V562□KLDZ0	HACB3C562□
	0.0068		10.0	9.6			1.93		FHACB162V682□KLDZ0	HACB3C682□
	0.0082		10.7	10.2			2.12		FHACB162V822□KLDZ0	HACB3C822□
	0.01		11.5	11.0			2.34		FHACB162V103□KLDZ0	HACB3C103□
	0.012		12.3	11.8			2.56		FHACB162V123□KLDZ0	HACB3C123□
	0.015		13.5	12.9			2.86		FHACB162V153□KLDZ0	HACB3C153□
	0.018		14.6	13.9			3.14		FHACB162V183□KLDZ0	HACB3C183□
	0.022		15.8	15.1			3.47		FHACB162V223□KLDZ0	HACB3C223□
	0.027	22.7	13.0	12.4	17.5		2.61		FHACB162V273□1LHZ0	HACB3C273□
	0.033		14.0	13.4			2.88		FHACB162V333□1LHZ0	HACB3C333□
	0.039		15.1	14.4			3.13		FHACB162V393□1LHZ0	HACB3C393□
	0.047		16.4	15.6			3.44		FHACB162V473□1LHZ0	HACB3C473□
	0.056		17.6	16.8			3.75		FHACB162V563□1LHZ0	HACB3C563□
	0.068		19.1	18.2			4.14		FHACB162V683□1LHZ0	HACB3C683□
	0.082	27.7	17.4	16.6	22.5	1.0	3.38		FHACB162V823□2LEZ0	HACB3C823□
	0.1		19.0	18.1			3.73		FHACB162V104□2LEZ0	HACB3C104□
	0.12		20.6	19.6			4.09		FHACB162V124□2LEZ0	HACB3C124□
	0.15		22.8	21.8			4.56		FHACB162V154□2LEZ0	HACB3C154□
	0.18		24.7	23.6			5.00		FHACB162V184□2LEZ0	HACB3C184□
	0.22		27.2	25.9			5.53		FHACB162V224□2LEZ0	HACB3C224□
	0.27	42.7	23.4	22.3	37.5		3.62		FHACB162V274□4LJZ0	HACB3C274□
	0.33		25.9	24.7			4.41		FHACB162V334□4LJZ0	HACB3C334□
	0.39		27.9	26.6			4.84		FHACB162V394□4LJZ0	HACB3C394□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, H : ±3%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

HACB Series

◆STANDARD RATINGS

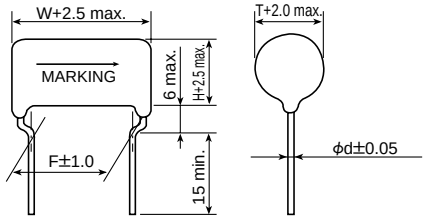
WV (Vdc)	Cap (μF)	Dimensions (mm)					Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
		W	H	T	F	φd				
2000	0.001	19.7	8.3	8.1	15.0	0.8	0.28	450	FHACB202V102□KLDZ0	HACB3D102□
	0.0012		9.0	8.6			0.34		FHACB202V122□KLDZ0	HACB3D122□
	0.0015		9.6	9.2			0.42		FHACB202V152□KLDZ0	HACB3D152□
	0.0018		9.3	9.0			0.51		FHACB202V182□KLDZ0	HACB3D182□
	0.0022		10.0	9.6			0.62		FHACB202V222□KLDZ0	HACB3D222□
	0.0027		8.5	8.2			0.76		FHACB202V272□KLDZ0	HACB3D272□
	0.0033		9.1	8.7			0.93		FHACB202V332□KLDZ0	HACB3D332□
	0.0039		9.6	9.2			1.10		FHACB202V392□KLDZ0	HACB3D392□
	0.0047		10.2	9.8			1.33		FHACB202V472□KLDZ0	HACB3D472□
	0.0056		11.0	10.5			1.53		FHACB202V562□KLDZ0	HACB3D562□
	0.0068		11.8	11.3			1.92		FHACB202V682□KLDZ0	HACB3D682□
	0.0082		12.7	12.1			2.32		FHACB202V822□KLDZ0	HACB3D822□
	0.01		13.7	13.1			2.61		FHACB202V103□KLDZ0	HACB3D103□
	0.012		14.8	14.1			2.86		FHACB202V123□KLDZ0	HACB3D123□
	0.015		16.3	15.5			3.21		FHACB202V153□KLDZ0	HACB3D153□
	0.018	22.7	13.2	12.6	17.5		2.38		FHACB202V183□1LHZ0	HACB3D183□
	0.022		14.3	13.6			2.63		FHACB202V223□1LHZ0	HACB3D223□
	0.027		15.5	14.8			2.91		FHACB202V273□1LHZ0	HACB3D273□
	0.033		17.0	16.2			3.22		FHACB202V333□1LHZ0	HACB3D333□
	0.039		18.3	17.4			3.50		FHACB202V393□1LHZ0	HACB3D393□
	0.047		19.8	18.8			3.84		FHACB202V473□1LHZ0	HACB3D473□
	0.056	27.7	17.9	17.0	22.5	1.0	3.12		FHACB202V563□2LEZ0	HACB3D563□
	0.068		19.4	18.5			3.44		FHACB202V683□2LEZ0	HACB3D683□
	0.082		21.2	20.2			3.78		FHACB202V823□2LEZ0	HACB3D823□
	0.1		23.2	22.1			4.17		FHACB202V104□2LEZ0	HACB3D104□
	0.12		25.3	24.1			4.56		FHACB202V124□2LEZ0	HACB3D124□
	0.15		27.9	26.6			5.11		FHACB202V154□2LEZ0	HACB3D154□
	0.18	42.7	22.1	21.1	37.5		3.17		FHACB202V184□4LJZ0	HACB3D184□
	0.22		24.5	23.4			3.56		FHACB202V224□4LJZ0	HACB3D224□
	0.27		26.5	25.3			3.89		FHACB202V274□4LJZ0	HACB3D274□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, H : ±3%)

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				
3150	0.0047	34.7	12.0	11.5	30.0	1.0	1.68	920	FHACB3B2V472□LLQZ0	HACB3F472□
	0.0056		12.9	12.3			1.84		FHACB3B2V562□LLQZ0	HACB3F562□
	0.0068		13.9	13.3			2.02		FHACB3B2V682□LLQZ0	HACB3F682□
	0.0082		15.0	14.3			2.22		FHACB3B2V822□LLQZ0	HACB3F822□
	0.01		16.3	15.5			2.45		FHACB3B2V103□LLQZ0	HACB3F103□
	0.012		17.5	16.7			2.69		FHACB3B2V123□LLQZ0	HACB3F123□
	0.015		19.3	18.4			3.00		FHACB3B2V153□LLQZ0	HACB3F153□
	0.018		20.9	19.9			3.29		FHACB3B2V183□LLQZ0	HACB3F183□
	0.022		22.9	21.9			3.64		FHACB3B2V223□LLQZ0	HACB3F223□
	0.027		25.2	24.0			4.03		FHACB3B2V273□LLQZ0	HACB3F273□
	0.033		27.5	26.2			4.46		FHACB3B2V333□LLQZ0	HACB3F333□
4000	0.0027	34.7	12.7	12.1	30.0	1.0	1.51	920	FHACB402V272□LLQZ0	HACB3G272□
	0.0033		13.7	13.1			1.67		FHACB402V332□LLQZ0	HACB3G332□
	0.0039		14.6	13.9			1.81		FHACB402V392□LLQZ0	HACB3G392□
	0.0047		15.7	15.0			1.99		FHACB402V472□LLQZ0	HACB3G472□
	0.0056		17.0	16.2			2.17		FHACB402V562□LLQZ0	HACB3G562□
	0.0068		18.4	17.5			2.39		FHACB402V682□LLQZ0	HACB3G682□
	0.0082		20.0	19.0			2.63		FHACB402V822□LLQZ0	HACB3G822□
	0.01		21.8	20.7			2.90		FHACB402V103□LLQZ0	HACB3G103□
	0.012		23.7	22.6			3.18		FHACB402V123□LLQZ0	HACB3G123□
	0.015		26.2	25.0			3.55		FHACB402V153□LLQZ0	HACB3G153□
	0.018		28.5	27.1			3.89		FHACB402V183□LLQZ0	HACB3G183□

(1)The symbol "□" is Capacitance tolerance code. (J : ±5%, K : ±10%)
(2)The maximum ripple current : +85℃ max., 100kHz, sine wave
(3)WV(Vac) : 50Hz or 60Hz, sine wave

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

DADC Series

- It is excellent in coping with high current and in heat radiation.
- It can handle a frequency of above 100kHz.
- 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	±5% (J)
Voltage proof (Terminal - Terminal)	No degradation, at 150% of rated voltage shall be applied for 60 seconds.
Dissipation factor (tanδ)	No more than 0.05%
Insulation resistance (Terminal - Terminal)	No less than 50000MΩ : Equal or less than 1μF. No less than 50000ΩF : More than 1μF.

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 25000MΩ : Equal or less than 1μF. No less than 25000ΩF : More than 1μF.
Dissipation factor (tanδ)	No more than initial specification at 1kHz.
Capacitance change	Within ±3% 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 25000MΩ : Equal or less than 1μF. No less than 25000ΩF : More than 1μF.
Dissipation factor (tanδ)	No more than initial specification at 1kHz.
Capacitance change	Within ±5% of initial value.

◆STANDARD RATINGS

WV (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	F	φd	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
250	0.01	15.5	11.0	7.0	7.5	0.8	0.78	125	FDADC251V103JGLBM0	DADC2E103J-F2BM
	0.012		11.5	7.5			1.0		FDADC251V123JGLBM0	DADC2E123J-F2BM
	0.015		13.0	8.5			1.2		FDADC251V153JGLBM0	DADC2E153J-F2BM
	0.018		11.5	7.5			1.4		FDADC251V183JGLBM0	DADC2E183J-F2BM
	0.022		12.0	6.0			1.7		FDADC251V223JGLBM0	DADC2E223J-F2BM
	0.027		12.5	6.5			1.9		FDADC251V273JGLBM0	DADC2E273J-F2BM
	0.033		13.0	7.0			2.2		FDADC251V333JGLBM0	DADC2E333J-F2BM
	0.039		13.0	7.5			2.4		FDADC251V393JGLBM0	DADC2E393J-F2BM
	0.047		15.5	7.5			2.6		FDADC251V473JGLBM0	DADC2E473J-F2BM
	0.056		15.5	7.5			2.8		FDADC251V563JGLBM0	DADC2E563J-F2BM
	0.068		12.0	6.5			2.9		FDADC251V683JGLBM0	DADC2E683J-F2BM
	0.082		12.5	7.0			3.0		FDADC251V823JGLBM0	DADC2E823J-F2BM
	0.1	17.5	12.0	6.5			3.1		FDADC251V104JDLBM0	DADC2E104J-F2BM
	0.12		12.5	7.0			3.3		FDADC251V124JDLBM0	DADC2E124J-F2BM
	0.15		14.0	7.0			3.4		FDADC251V154JDLBM0	DADC2E154J-F2BM
	0.18		14.5	7.5			3.6		FDADC251V184JDLBM0	DADC2E184J-F2BM
	0.22		15.5	7.5			3.7		FDADC251V224JDLBM0	DADC2E224J-F2BM
	0.27		16.0	8.0			3.8		FDADC251V274JDLBM0	DADC2E274J-F2BM
	0.33		16.5	8.5			4.0		FDADC251V334JDLBM0	DADC2E334J-F2BM
	0.39		17.5	9.0			4.1		FDADC251V394JDLBM0	DADC2E394J-F2BM
	0.47	22.5	16.5	8.0			4.3		FDADC251V474JNLBM0	DADC2E474J-F2BM
	0.56		17.0	8.5			4.6		FDADC251V564JNLBM0	DADC2E564J-F2BM
	0.68		17.5	9.0			5.0		FDADC251V684JNLBM0	DADC2E684J-F2BM
	0.82		18.0	10.0			5.3		FDADC251V824JNLBM0	DADC2E824J-F2BM
	1.0		19.0	10.5			5.7		FDADC251V105JNLBM0	DADC2E105J-F2BM
	1.2		20.0	11.5			6.2		FDADC251V125JNLBM0	DADC2E125J-F2BM
	1.5		21.0	12.5			6.7		FDADC251V155JNLBM0	DADC2E155J-F2BM
	1.8		22.0	14.0			7.2		FDADC251V185JNLBM0	DADC2E185J-F2BM
	2.2		23.5	15.0			7.8		FDADC251V225JNLBM0	DADC2E225J-F2BM
	2.7	25.5	24.0	15.5			8.2		FDADC251V275JELBM0	DADC2E275J-F2BM
	3.3		24.5	16.5			8.7		FDADC251V335JELBM0	DADC2E335J-F2BM
	3.9	31.0	25.5	17.5	22.5		9.1		FDADC251V395JFLEM0	DADC2E395J-F2EM
	4.7		27.0	19.0			9.3		FDADC251V475JFLEM0	DADC2E475J-F2EM

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

CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

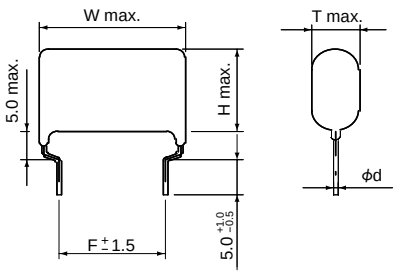
DADC Series

◆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	F	φd				
400	0.01	15.5	11.0	7.0	7.5	0.8	1.5	250	FDADC401V103JGLBM0	DADC2G103J-F2BM
	0.012		11.5	7.5			1.7		FDADC401V123JGLBM0	DADC2G123J-F2BM
	0.015		13.0	8.5			1.9		FDADC401V153JGLBM0	DADC2G153J-F2BM
	0.018		11.5	7.5			2.0		FDADC401V183JGLBM0	DADC2G183J-F2BM
	0.022		12.0	6.0			2.2		FDADC401V223JGLBM0	DADC2G223J-F2BM
	0.027		12.5	6.5			2.4		FDADC401V273JGLBM0	DADC2G273J-F2BM
	0.033		13.0	7.0			2.6		FDADC401V333JGLBM0	DADC2G333J-F2BM
	0.039		13.0	6.0			2.7		FDADC401V393JGLBM0	DADC2G393J-F2BM
	0.047		13.5	6.5			2.9		FDADC401V473JGLBM0	DADC2G473J-F2BM
	0.056		14.0	6.5			3.1		FDADC401V563JGLBM0	DADC2G563J-F2BM
	0.068	17.5	13.5	6.5			3.2		FDADC401V683JDLBM0	DADC2G683J-F2BM
	0.082		14.0	7.0			3.4		FDADC401V823JDLBM0	DADC2G823J-F2BM
	0.1		14.5	7.5			3.6		FDADC401V104JDLBM0	DADC2G104J-F2BM
	0.12		15.0	8.0			3.9		FDADC401V124JDLBM0	DADC2G124J-F2BM
	0.15		16.0	8.5			4.3		FDADC401V154JDLBM0	DADC2G154J-F2BM
	0.18		16.5	9.5			4.6		FDADC401V184JDLBM0	DADC2G184J-F2BM
	0.22	20.5	16.0	9.0			4.9		FDADC401V224JHLBM0	DADC2G224J-F2BM
	0.27		18.0	9.5			5.3		FDADC401V274JHLBM0	DADC2G274J-F2BM
	0.33		19.0	10.5			5.6		FDADC401V334JHLBM0	DADC2G334J-F2BM
	0.39		19.5	11.5			5.9		FDADC401V394JHLBM0	DADC2G394J-F2BM
	0.47	22.5	20.0	11.5			6.3		FDADC401V474JNLBM0	DADC2G474J-F2BM
	0.56		21.0	13.0			6.6		FDADC401V564JNLBM0	DADC2G564J-F2BM
	0.68	25.5	21.0	13.0			6.9		FDADC401V684JELBM0	DADC2G684J-F2BM
	0.82		22.5	14.0			7.2		FDADC401V824JELBM0	DADC2G824J-F2BM
	1.0		23.5	15.5			7.5		FDADC401V105JELBM0	DADC2G105J-F2BM
	1.2		25.0	16.5			8.0		FDADC401V125JELBM0	DADC2G125J-F2BM
	1.5		26.5	18.5			8.5		FDADC401V155JELBM0	DADC2G155J-F2BM
	1.8	31.0	26.0	17.5	22.5		8.9		FDADC401V185JFLEM0	DADC2G185J-F2EM
	2.2		27.5	19.5			9.3		FDADC401V225JFLEM0	DADC2G225J-F2EM
630	0.01	15.5	11.0	7.0	7.5	0.8	1.8	300	FDADC631V103JGLBM0	DADC2J103J-F2BM
	0.012		11.5	7.5			2.0		FDADC631V123JGLBM0	DADC2J123J-F2BM
	0.015		13.0	8.5			2.1		FDADC631V153JGLBM0	DADC2J153J-F2BM
	0.018		11.5	7.5			2.2		FDADC631V183JGLBM0	DADC2J183J-F2BM
	0.022	16.0	12.5	7.0			2.3		FDADC631V223JGLBM0	DADC2J223J-F2BM
	0.027		12.5	7.0			2.5		FDADC631V273JGLBM0	DADC2J273J-F2BM
	0.033		13.0	7.5			2.6		FDADC631V333JGLBM0	DADC2J333J-F2BM
	0.039	20.5	12.5	7.0			2.7		FDADC631V393JHLBM0	DADC2J393J-F2BM
	0.047		12.5	7.0			2.8		FDADC631V473JHLBM0	DADC2J473J-F2BM
	0.056		13.0	7.5			3.1		FDADC631V563JHLBM0	DADC2J563J-F2BM
	0.068		13.5	8.0			3.4		FDADC631V683JHLBM0	DADC2J683J-F2BM
	0.082		14.0	8.5			3.6		FDADC631V823JHLBM0	DADC2J823J-F2BM
	0.1		16.0	8.5			3.9		FDADC631V104JHLBM0	DADC2J104J-F2BM
	0.12		16.5	9.5			4.3		FDADC631V124JHLBM0	DADC2J124J-F2BM
	0.15		17.5	10.5			4.7		FDADC631V154JHLBM0	DADC2J154J-F2BM
	0.18		18.5	11.0			5.1		FDADC631V184JHLBM0	DADC2J184J-F2BM
	0.22		21.0	11.5			5.5		FDADC631V224JHLBM0	DADC2J224J-F2BM
	0.27		22.5	13.0			5.9		FDADC631V274JHLBM0	DADC2J274J-F2BM
	0.33	29.0	18.5	11.5	20		6.3		FDADC631V334JPLNM0	DADC2J334J-F2NM
	0.39		19.5	12.5			6.7		FDADC631V394JPLNM0	DADC2J394J-F2NM
	0.47		20.5	13.5			7.2		FDADC631V474JPLNM0	DADC2J474J-F2NM
	0.56		22.5	14.0			7.6		FDADC631V564JPLNM0	DADC2J564J-F2NM
	0.68		23.5	15.0			8.1		FDADC631V684JPLNM0	DADC2J684J-F2NM
	0.82	36.0	23.0	14.5	25		8.6		FDADC631V824JRLPM0	DADC2J824J-F2PM
	1.0		24.0	15.5			9.1		FDADC631V105JRLPM0	DADC2J105J-F2PM
	1.2		25.5	17.0			9.3		FDADC631V125JRLPM0	DADC2J125J-F2PM

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

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

DLDA Series

- It is excellent in coping with high current and in heat radiation.
- For high current, it is made to cope with current up to 25Ampere.
- As a countermeasure against high voltage along with high current, it is made to withstand a high voltage of up to 1800VH.

◆SPECIFICATIONS

Items	Characteristics	
Category temperature range	-40 to +105℃	
Rated voltage range	800 to 1800VH	
Capacitance tolerance	±3% (J)	
Voltage proof (Terminal - Terminal)	No degradation, at 150% of rated voltage shall be applied for 60 seconds.	
Dissipation factor (tanδ)	No more than 0.1%	
Insulation resistance (Terminal - Terminal)	No less than 50000MΩ at 500Vdc	
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 25000MΩ
	Dissipation factor (tanδ)	No more than initial specification at 1kHz.
	Capacitance change	Within ±3% 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 25000MΩ
	Dissipation factor (tanδ)	No more than initial specification at 1kHz.
	Capacitance change	Within ±5% of initial value.

◆STANDARD RATINGS

WV (VH)	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)
800 (1000Vdc)	0.001	16.0	14.0	7.0	7.5	0.8	B	0.21	350	FDLDA801V102HGLBM0	DLDA2K102H-F2BM
	0.0012		14.0	7.0				0.32		FDLDA801V122HGLBM0	DLDA2K122H-F2BM
	0.0015		14.0	7.0				0.42		FDLDA801V152HGLBM0	DLDA2K152H-F2BM
	0.0018		14.0	7.0				0.52		FDLDA801V182HGLBM0	DLDA2K182H-F2BM
	0.0022		11.0	6.0				0.62		FDLDA801V222HGLBM0	DLDA2K222H-F2BM
	0.0027		11.0	6.5				0.72		FDLDA801V272HGLBM0	DLDA2K272H-F2BM
	0.0033		11.5	7.0				0.83		FDLDA801V332HGLBM0	DLDA2K332H-F2BM
	0.0039		11.0	6.0				0.93		FDLDA801V392HGLBM0	DLDA2K392H-F2BM
	0.0047		11.0	6.5				1.0		FDLDA801V472HGLBM0	DLDA2K472H-F2BM
	0.0056		11.5	7.0				1.2		FDLDA801V562HGLBM0	DLDA2K562H-F2BM
	0.0068		13.0	8.0				1.3		FDLDA801V682HGLBM0	DLDA2K682H-F2BM
	0.0082		13.5	8.5				1.5		FDLDA801V822HGLBM0	DLDA2K822H-F2BM
	0.01		11.0	6.5				1.7		FDLDA801V103HGLBM0	DLDA2K103H-F2BM
	0.012		11.0	6.5				1.9		FDLDA801V123HGLBM0	DLDA2K123H-F2BM
	0.015		11.5	7.0				2.1		FDLDA801V153HGLBM0	DLDA2K153H-F2BM
	0.018		13.0	8.0				2.4		FDLDA801V183HGLBM0	DLDA2K183H-F2BM
	0.022		14.5	8.5				2.6		FDLDA801V223HGLBM0	DLDA2K223H-F2BM
	0.027		15.5	9.5				2.8		FDLDA801V273HGLBM0	DLDA2K273H-F2BM
	0.033		16.0	10.0				3.1		FDLDA801V333HGLBM0	DLDA2K333H-F2BM
	0.039		17.0	10.5				3.3		FDLDA801V393HGLBM0	DLDA2K393H-F2BM
	0.047	20.0	15.5	9.5				3.5		FDLDA801V473HHLBM0	DLDA2K473H-F2BM
	0.056		16.0	10.0				4.0		FDLDA801V563HHLBM0	DLDA2K563H-F2BM
	0.068		16.5	11.0				4.5		FDLDA801V683HHLBM0	DLDA2K683H-F2BM
	0.082		17.5	11.5				5.0		FDLDA801V823HHLBM0	DLDA2K823H-F2BM
	0.10		18.5	12.5				5.4		FDLDA801V104HHLBM0	DLDA2K104H-F2BM
1000 (1250Vdc)	0.001	18.0	12.0	6.5	15.0	0.8	A	0.28	450	FDLDA102V102HDFDM0	DLDA3A102H-F7DM
	0.0012		12.5	6.5				0.41		FDLDA102V122HDFDM0	DLDA3A122H-F7DM
	0.0015		13.0	7.0				0.54		FDLDA102V152HDFDM0	DLDA3A152H-F7DM
	0.0018		12.5	7.0				0.67		FDLDA102V182HDFDM0	DLDA3A182H-F7DM
	0.0022		13.0	7.5				0.80		FDLDA102V222HDFDM0	DLDA3A222H-F7DM
	0.0027		11.0	6.0				0.93		FDLDA102V272HDFDM0	DLDA3A272H-F7DM
	0.0033		11.0	6.5				1.0		FDLDA102V332HDFDM0	DLDA3A332H-F7DM
	0.0039		11.5	7.0				1.1		FDLDA102V392HDFDM0	DLDA3A392H-F7DM
	0.0047		10.5	5.5				1.3		FDLDA102V472HDFDM0	DLDA3A472H-F7DM

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

CAT. No. E1003D

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

DLDA Series

◆STANDARD RATINGS

WV (VH)	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					
1000 (1250Vdc)	0.0056	18.0	11.0	6.0	15.0	0.8	A	1.6	450	FDLDA102V562HDFDM0	DLDA3A562H-F7DM
	0.0068		11.5	6.5				1.9		FDLDA102V682HDFDM0	DLDA3A682H-F7DM
	0.0082		13.0	7.5				2.2		FDLDA102V822HDFDM0	DLDA3A822H-F7DM
	0.01		13.5	8.0				2.5		FDLDA102V103HDFDM0	DLDA3A103H-F7DM
	0.012		15.0	9.0				2.8		FDLDA102V123HDFDM0	DLDA3A123H-F7DM
	0.015		16.0	9.5				3.1		FDLDA102V153HDFDM0	DLDA3A153H-F7DM
	0.018		16.5	10.5				3.4		FDLDA102V183HDFDM0	DLDA3A183H-F7DM
	0.022		17.5	11.5				3.7		FDLDA102V223HDFDM0	DLDA3A223H-F7DM
	0.027		19.5	12.5				4.0		FDLDA102V273HDFDM0	DLDA3A273H-F7DM
	0.033	22.5	16.5	10.5			B	4.3		FDLDA102V333HNLDM0	DLDA3A333H-F2DM
	0.039		17.5	11.0				4.9		FDLDA102V393HNLDM0	DLDA3A393H-F2DM
	0.047		19.5	12.0				5.5		FDLDA102V473HNLDM0	DLDA3A473H-F2DM
	0.056		20.5	13.0				6.1		FDLDA102V563HNLDM0	DLDA3A563H-F2DM
	0.068		21.5	14.5				6.7		FDLDA102V683HNLDM0	DLDA3A683H-F2DM
1250 (1600Vdc)	0.001	18.0	12.0	6.5	15.0	0.8	A	0.35	560	FDLDA1C2V102HDFDM0	DLDA3B102H-F7DM
	0.0012		12.5	6.5				0.51		FDLDA1C2V122HDFDM0	DLDA3B122H-F7DM
	0.0015		13.0	7.0				0.67		FDLDA1C2V152HDFDM0	DLDA3B152H-F7DM
	0.0018		12.5	7.0				0.84		FDLDA1C2V182HDFDM0	DLDA3B182H-F7DM
	0.0022		13.0	7.5				1.0		FDLDA1C2V222HDFDM0	DLDA3B222H-F7DM
	0.0027		13.5	8.0				1.1		FDLDA1C2V272HDFDM0	DLDA3B272H-F7DM
	0.0033		14.0	8.5				1.3		FDLDA1C2V332HDFDM0	DLDA3B332H-F7DM
	0.0039		14.5	9.0				1.4		FDLDA1C2V392HDFDM0	DLDA3B392H-F7DM
	0.0047	22.5	14.0	7.0			B	1.6		FDLDA1C2V472HNLDM0	DLDA3B472H-F2DM
	0.0056		14.5	7.5				2.1		FDLDA1C2V562HNLDM0	DLDA3B562H-F2DM
	0.0068		15.5	8.0				2.5		FDLDA1C2V682HNLDM0	DLDA3B682H-F2DM
	0.0082		16.0	8.5				3.0		FDLDA1C2V822HNLDM0	DLDA3B822H-F2DM
	0.01		16.5	9.0				3.5		FDLDA1C2V103HNLDM0	DLDA3B103H-F2DM
	0.012		17.0	10.0				3.9		FDLDA1C2V123HNLDM0	DLDA3B123H-F2DM
	0.015		18.0	11.0				4.3		FDLDA1C2V153HNLDM0	DLDA3B153H-F2DM
	0.018		19.0	12.0				4.7		FDLDA1C2V183HNLDM0	DLDA3B183H-F2DM
	0.022	26.0	19.0	11.5				5.1		FDLDA1C2V223HELDM0	DLDA3B223H-F2DM
	0.027		20.0	12.5				5.6		FDLDA1C2V273HELDM0	DLDA3B273H-F2DM
	0.033		21.0	14.0				6.0		FDLDA1C2V333HELDM0	DLDA3B333H-F2DM
	0.039		22.0	15.0				6.5		FDLDA1C2V393HELDM0	DLDA3B393H-F2DM
	0.047		23.5	16.5				7.1		FDLDA1C2V473HELDM0	DLDA3B473H-F2DM
	0.056		25.0	17.5				7.7		FDLDA1C2V563HELDM0	DLDA3B563H-F2DM
1500 (2000Vdc)	0.001	18.0	12.0	6.5	15.0	0.8	A	0.39	630	FDLDA152V102HDFDM0	DLDA3L102H-F7DM
	0.0012		12.5	6.5				0.54		FDLDA152V122HDFDM0	DLDA3L122H-F7DM
	0.0015		13.0	7.0				0.69		FDLDA152V152HDFDM0	DLDA3L152H-F7DM
	0.0018		13.5	7.5				0.85		FDLDA152V182HDFDM0	DLDA3L182H-F7DM
	0.0022		14.0	8.0				1.0		FDLDA152V222HDFDM0	DLDA3L222H-F7DM
	0.0027		14.5	9.0				1.1		FDLDA152V272HDFDM0	DLDA3L272H-F7DM
	0.0033	22.5	14.0	7.0			B	1.3		FDLDA152V332HNLDM0	DLDA3L332H-F2DM
	0.0039		14.0	7.5				1.6		FDLDA152V392HNLDM0	DLDA3L392H-F2DM
	0.0047		15.0	8.0				1.9		FDLDA152V472HNLDM0	DLDA3L472H-F2DM
	0.0056		16.0	8.5				2.3		FDLDA152V562HNLDM0	DLDA3L562H-F2DM
	0.0068		16.5	9.5				2.6		FDLDA152V682HNLDM0	DLDA3L682H-F2DM
	0.0082		17.0	10.0				3.3		FDLDA152V822HNLDM0	DLDA3L822H-F2DM
	0.01		18.0	11.0				3.9		FDLDA152V103HNLDM0	DLDA3L103H-F2DM
	0.012		19.0	11.5				4.6		FDLDA152V123HNLDM0	DLDA3L123H-F2DM
	0.015		20.0	13.0				5.2		FDLDA152V153HNLDM0	DLDA3L153H-F2DM
	0.018		21.5	13.5				5.9		FDLDA152V183HNLDM0	DLDA3L183H-F2DM

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

NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

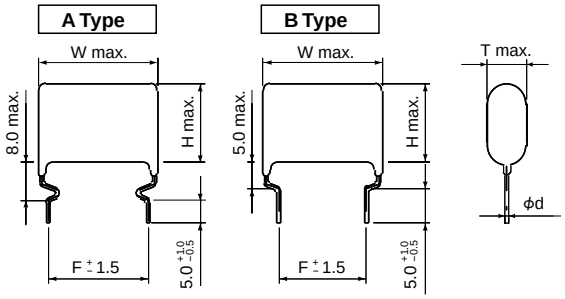
DLDA Series

◆STANDARD RATINGS

WV (VH)	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					
1800 (2000Vdc)	0.001	22.5	11.0	6.5	15.0	0.8	B	0.44	710	FDLDA182V102HNLDM0	DLDA3S102H-F2DM
	0.0012		11.5	7.0				0.61		FDLDA182V122HNLDM0	DLDA3S122H-F2DM
	0.0015		13.0	8.0				0.78		FDLDA182V152HNLDM0	DLDA3S152H-F2DM
	0.0018		13.5	8.5				1.0		FDLDA182V182HNLDM0	DLDA3S182H-F2DM
	0.0022		13.0	8.0				1.1		FDLDA182V222HNLDM0	DLDA3S222H-F2DM
	0.0027		15.0	8.5				1.3		FDLDA182V272HNLDM0	DLDA3S272H-F2DM
	0.0033		15.5	9.0				1.4		FDLDA182V332HNLDM0	DLDA3S332H-F2DM
	0.0039		16.0	10.0				1.8		FDLDA182V392HNLDM0	DLDA3S392H-F2DM
	0.0047		17.0	10.5				2.2		FDLDA182V472HNLDM0	DLDA3S472H-F2DM
	0.0056		18.5	11.5				2.6		FDLDA182V562HNLDM0	DLDA3S562H-F2DM
	0.0068		19.5	12.5				3.0		FDLDA182V682HNLDM0	DLDA3S682H-F2DM
	0.0082		20.5	13.5				3.7		FDLDA182V822HNLDM0	DLDA3S822H-F2DM
	0.01		22.0	15.0				4.4		FDLDA182V103HNLDM0	DLDA3S103H-F2DM
	0.012	26.0	21.0	14.0				5.3		FDLDA182V123HELDM0	DLDA3S123H-F2DM
	0.015		22.5	15.5				6.1		FDLDA182V153HELDM0	DLDA3S153H-F2DM
	0.018		24.0	16.5				6.4		FDLDA182V183HELDM0	DLDA3S183H-F2DM

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

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

DTD-Z Series

- Maximum operating temperature 105℃.
- Stacked type.
- Very small type.

◆SPECIFICATIONS

Items	Characteristics
Category temperature range	-40 to +105℃
Rated voltage range	35 to 250Vdc
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 (Vdc)	35	50	100	160	250
Measurement voltage (Vdc)	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 (Vdc)	Cap (μF)	Dimensions (mm) W	H	T	P	φd	Maximum ripple current (Arms)	WV (Vac)	Part Number	Previous Part Number (Just for your reference)
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			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			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		0.6	0.33		FDTDZ500U224KAAAZ0	DTDA1H224KZ
	0.33			4.9			0.40		FDTDZ500U334KAAAZ0	DTDA1H334KZ
	0.47			5.8			0.57		FDTDZ500U474KAAAZ0	DTDA1H474KZ
	0.68		12.5	6.5			0.73		FDTDZ500U684KAAAZ0	DTDA1H684KZ
	1.0			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		0.6	0.57		FDTDZ500U474KBABZ0	DTDB1H474KZ
	0.68			5.0			0.73		FDTDZ500U684KBABZ0	DTDB1H684KZ
	1.0			6.2			0.90		FDTDZ500U105KBABZ0	DTDB1H105KZ
	1.5		12.5	6.6			1.2		FDTDZ500U155KBABZ0	DTDB1H155KZ
	2.2			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	FDTDZ500U474KCACZ0	DTDC1H474KZ
	0.68		10.0	4.2			0.73		FDTDZ500U684KCACZ0	DTDC1H684KZ
	1.0			5.1			0.90		FDTDZ500U105KCACZ0	DTDC1H105KZ
	1.5			6.2			1.2		FDTDZ500U155KCACZ0	DTDC1H155KZ
	2.2		12.5	6.7			1.6		FDTDZ500U225KCACZ0	DTDC1H225KZ
	3.3			8.8			1.9		FDTDZ500U335KCACZ0	DTDC1H335KZ
	4.7		15.0	10.2			2.2		FDTDZ500U475KCACZ0	DTDC1H475KZ
	6.8		20.0	10.6			3.1		FDTDZ500U685KCACZ0	DTDC1H685KZ
	0.68	17.5	10.0	4.0	15.0	0.6	0.73	16	FDTDZ500U684KDADZ0	DTDD1H684KZ
	1.0			4.2			0.90		FDTDZ500U105KDADZ0	DTDD1H105KZ
	1.5			4.9			1.2		FDTDZ500U155KDADZ0	DTDD1H155KZ
	2.2			5.8			1.6		FDTDZ500U225KDADZ0	DTDD1H225KZ
	3.3		12.5	6.4			1.9		FDTDZ500U335KDADZ0	DTDD1H335KZ
	4.7		15.0	6.9			2.2		FDTDZ500U475KDADZ0	DTDD1H475KZ
	6.8			9.3			3.1		FDTDZ500U685KDADZ0	DTDD1H685KZ
	10		20.0	10.0			4.1		FDTDZ500U106KDADZ0	DTDD1H106KZ

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

CAT. No. E1003D

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				
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		15.0	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			4.6			0.22		FDTDZ101U104KAAAZ0	DTDA2A104KZ
	0.15		7.0	5.2			0.29		FDTDZ101U154KAAAZ0	DTDA2A154KZ
	0.22		10.0	5.1		0.6	0.39		FDTDZ101U224KAAAZ0	DTDA2A224KZ
	0.33			6.3			0.50		FDTDZ101U334KAAAZ0	DTDA2A334KZ
	0.47			7.8			0.60		FDTDZ101U474KAAAZ0	DTDA2A474KZ
	0.68		12.5	8.4			0.75		FDTDZ101U684KAAAZ0	DTDA2A684KZ
	0.1	10.5	7.0	4.0	7.5	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		15.0	10.1			1.6		FDTDZ101U225KBABZ0	DTDB2A225KZ
	0.15	12.5	7.0	4.1	10.0	0.6	0.29	44	FDTDZ101U154KCACZ0	DTDC2A154KZ
	0.22			4.1			0.39		FDTDZ101U224KCACZ0	DTDC2A224KZ
	0.33			4.7			0.50		FDTDZ101U334KCACZ0	DTDC2A334KZ
	0.47		10.0	4.6			0.60		FDTDZ101U474KCACZ0	DTDC2A474KZ
	0.68			5.5			0.75		FDTDZ101U684KCACZ0	DTDC2A684KZ
	1.0			6.8			0.90		FDTDZ101U105KCACZ0	DTDC2A105KZ
	1.5		12.5	7.5			1.2		FDTDZ101U155KCACZ0	DTDC2A155KZ
	2.2			9.8			1.6		FDTDZ101U225KCACZ0	DTDC2A225KZ
	3.3		15.0	11.5			1.9		FDTDZ101U335KCACZ0	DTDC2A335KZ
	4.7		20.0	11.8			2.2		FDTDZ101U475KCACZ0	DTDC2A475KZ
	0.47	17.5	10.0	4.2	15.0	0.6	0.60	44	FDTDZ101U474KDADZ0	DTDD2A474KZ
	0.68			4.2			0.75		FDTDZ101U684KDADZ0	DTDD2A684KZ
	1.0			5.0			0.90		FDTDZ101U105KDADZ0	DTDD2A105KZ
	1.5			6.2			1.2		FDTDZ101U155KDADZ0	DTDD2A155KZ
	2.2			7.9			1.6		FDTDZ101U225KDADZ0	DTDD2A225KZ
	3.3		12.5	8.7			1.9		FDTDZ101U335KDADZ0	DTDD2A335KZ
	4.7		15.0	9.7			2.2		FDTDZ101U475KDADZ0	DTDD2A475KZ
	6.8		20.0	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		15.0	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		10.0	5.4		0.6	0.36		FDTDZ161U154KAAAZ0	DTDA2C154KZ
	0.22			6.7			0.48		FDTDZ161U224KAAAZ0	DTDA2C224KZ
	0.33		12.5	7.4			0.59		FDTDZ161U334KAAAZ0	DTDA2C334KZ
	0.47			9.5			0.70		FDTDZ161U474KAAAZ0	DTDA2C474KZ

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

NIPPON CHEMI-CON

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		10.0	4.5		0.6	0.48		FDTDZ161U224KBABZ0	DTDB2C224KZ
	0.33			6.1			0.59		FDTDZ161U334KBABZ0	DTDB2C334KZ
	0.47			7.5			0.70		FDTDZ161U474KBABZ0	DTDB2C474KZ
	0.68		12.5	8.0			1.0		FDTDZ161U684KBABZ0	DTDB2C684KZ
	1.0		15.0	9.1			1.2		FDTDZ161U105KBABZ0	DTDB2C105KZ
	0.068	12.5	7.0	4.0	10.0	0.6	0.21	63	FDTDZ161U683KCACZ0	DTDC2C683KZ
	0.1			4.2			0.25		FDTDZ161U104KCACZ0	DTDC2C104KZ
	0.15			4.3			0.36		FDTDZ161U154KCACZ0	DTDC2C154KZ
	0.22		10.0	4.2			0.48		FDTDZ161U224KCACZ0	DTDC2C224KZ
	0.33			5.0			0.59		FDTDZ161U334KCACZ0	DTDC2C334KZ
	0.47			6.0			0.70		FDTDZ161U474KCACZ0	DTDC2C474KZ
	0.68			7.5			1.0		FDTDZ161U684KCACZ0	DTDC2C684KZ
	1.0		12.5	8.2			1.2		FDTDZ161U105KCACZ0	DTDC2C105KZ
	1.5		15.0	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			1.9		FDTDZ161U155KDADZ0	DTDD2C155KZ
	2.2			9.6			2.6		FDTDZ161U225KDADZ0	DTDD2C225KZ
	3.3		15.0	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	63	FDTDZ161U105KEAEZ0	DTDE2C105KZ
	1.5			6.0			1.9		FDTDZ161U155KEAEZ0	DTDE2C155KZ
	2.2			6.9			2.6		FDTDZ161U225KEAEZ0	DTDE2C225KZ
	3.3			9.1			3.3		FDTDZ161U335KEAEZ0	DTDE2C335KZ
	4.7		15.0	10.1			4.0		FDTDZ161U475KEAEZ0	DTDE2C475KZ
	6.8		20.0	10.6			4.5		FDTDZ161U685KEAEZ0	DTDE2C685KZ
	10			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		12.5	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		12.5	7.8			0.90		FDTDZ251U474KBABZ0	DTDB2E474KZ
	0.68		15.0	8.8			1.5		FDTDZ251U684KBABZ0	DTDB2E684KZ

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

ELECTRONIC EQUIPMENT FILM CAPACITOR

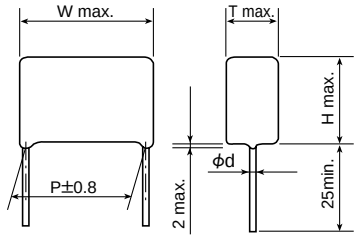
DTD-Z Series

◆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				
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		12.5	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			7.1			2.6		FDTDZ251U155KEAEZ0	DTDE2E155KZ
	2.2		15.0	7.9			3.2		FDTDZ251U225KEAEZ0	DTDE2E225KZ
	3.3		20.0	8.5			3.8		FDTDZ251U335KEAEZ0	DTDE2E335KZ

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

◆DIMENSIONS (mm)



NIPPON CHEMI-CON

ELECTRONIC EQUIPMENT FILM CAPACITOR

DFDD Series

- 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

CAT. No. E1003D

NIPPON CHEMI-CON

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	0.8		1.1		FDFDD251U474KDADZ0	DFDD2E474K
	0.68		15.0	7.0				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)