SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C3D-A01

Product Name	Metallized polypropylene Film Capacitor
Product Type:	C3D
Product Code	
Customer	
Customer Code	
Issue Date	2010-07

厦门法拉电子股份有限公司

Xiamen Faratronic Co. Ltd.

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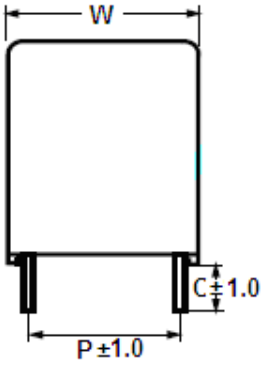
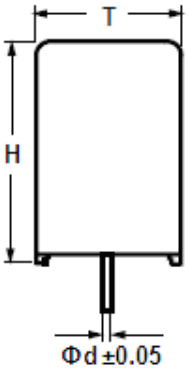
Metallized polypropylene film capacitor

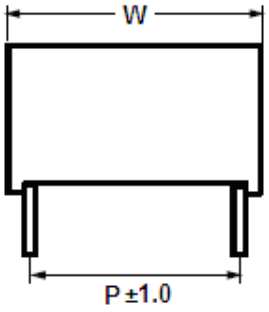
■ Outline Drawing

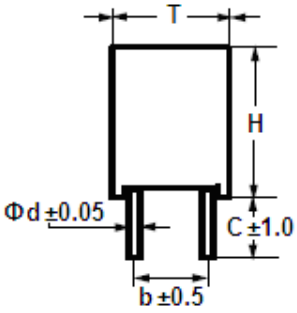
2-pins



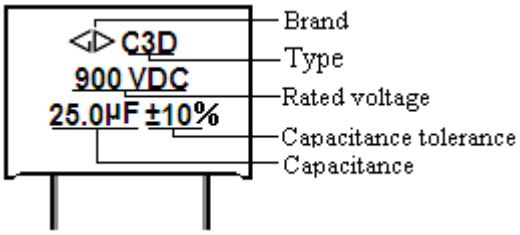


4-pins





■ Marking



■ Features

- Metallized polypropylene structure.
- Excellent electric property.
- Plastic case (UL94 V-0), Epoxy resin sealing.

■ Typical application

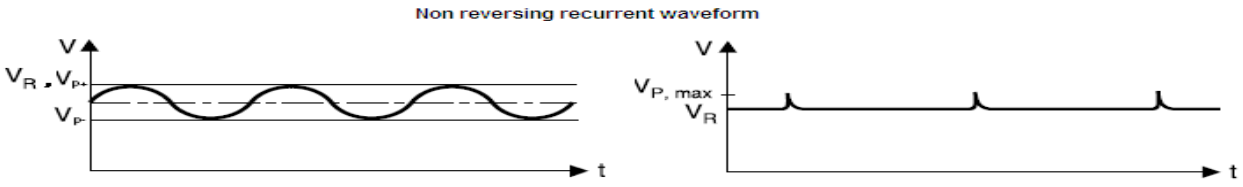
●High performance DC filtering applications
(i.e. Frequency converters, Industrial and high-end power supplies and Solar inverters)

■ Specifications

Reference Standard	IEC 61071
Climatic Category	40/85/56
Rated temperature	70℃
Operating temperature	-40℃~85℃ (+70℃ to +85℃: decreasing factor 1.0% per ℃ for V_R)
$V_{R,70℃}$ (d.c.)	600、800、900、1 000、1 100、1 200
Capacitance Tolerance	J(±5%), K(±10%)
Voltage Proof	1.5U_R (5s)
Dissipation Factor	≤10×10^{-4}(20℃, 500Hz)
Insulation Resistance	≥10 000s (20℃，100V,1min)
Self Inductance(Ls)	＜1nH per mm of lead spacing
Maximum peak current(A)	$I_{P,max}=C_R \cdot dV/dt$
Operation life time	100 000h at V_R and 70℃
Failure rate λ	≤10×10^{-9}/h(10 per 10^9 component h) at 0.5×U_R,40℃

■ Typical waveforms

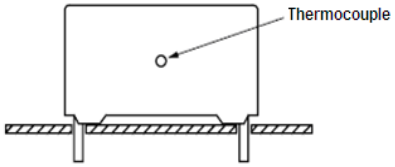
These capacitors are only suitable for DC applications. It means the voltage applied to the capacitors must be unidirectional ripple voltage.



Note：

- The peak voltage(V_{P+}) shall not be greater then the rated DC voltage(V_R).
- The peak-to-peak ripple voltage(V_{P-P}) shall not be greater then 0.1× (V_R).
- The maximum component surface temperature rise must be lower than 15℃.

■ Measuring the component temperature



Note：

- The temperature is measured in unloaded (T_{amb}) and maximum loaded condition (T_c)
- The temperature rise is given by $\triangle T = T_c - T_{amb}$
- To avoid thermal radiation or convection, the capacitor must be tested in a closed area from air circulation

■ Part number system

The 18 digits part number is formed as follow:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
C	3	D															

Digit 1 to 3 Series code of film capacitor

Digit 4 to 5 D.C. rated voltage 1U=600V 2K=800V 1X=900V

3A=1 000V 1M=1 100V 3L=1 200V

Digit 6 to 8 Rated capacitance value for example: 256=25×10^6pF=25.0μF

Digit 9 Capacitance tolerance J=±5% K=±10%

Digit 10 Pitch B=27.5 mm C=30.0 mm F=37.5 mm M=52.5 mm

Digit 11 Internal use

Digit 12 Pitch b 1=10.0mm 2=12.7mm 3=20.0mm 4=15.0mm

Digit 13 Packing code C= bulk

Digit 14 Lead length c 0=5.5mm

Digit 15 Lead length tolerance 0=±1.0

Digit 16~18 Internal use

■ Dimensions(mm)

600 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4}) 1kHz	tgδ＜(10^{-4}) 10kHz	ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
2.0	32.0	18.0	9.0	27.5	——	0.8	75	11	100	59.7	2.2	C3D1U205+B00C00
3.0	32.0	20.0	11.0	27.5	——	0.8	75	11	100	39.8	3.3	C3D1U305+B00C00
4.0	32.0	20.0	11.0	27.5	——	0.8	75	11	100	29.9	4.4	C3D1U405+B00C00
5.0	32.0	22.0	13.0	27.5	——	0.8	75	11	100	23.9	5.5	C3D1U505+B00C00
6.0	32.0	24.5	15.0	27.5	——	0.8	75	11	100	19.9	6.6	C3D1U605+B00C00
7.0	32.0	24.5	15.0	27.5	——	0.8	75	11	100	17.1	7.7	C3D1U705+B00C00
8.0	32.0	28.0	14.0	27.5	——	0.8	75	11	100	14.9	8.8	C3D1U805+B00C00
9.0	32.0	30.0	16.0	27.5	——	0.8	75	11	100	13.3	9.9	C3D1U905+B00C00
10.0	32.0	30.0	16.0	27.5	——	0.8	75	11	100	11.9	11.1	C3D1U106+B00C00
12.0	32.0	33.0	18.0	27.5	——	0.8	75	11	100	10.0	13.3	C3D1U126+B00C00
15.0	32.0	37.0	22.0	27.5	10.0	0.8	75	11	100	8.0	16.6	C3D1U156+B01C00
18.0	32.0	37.0	22.0	27.5	12.7	0.8	75	11	100	6.6	19.9	C3D1U186+B02C00
30.0	35.0	45.0	30.0	30.0	15.0	0.8	75	11	100	4.0	33.2	C3D1U306+C04C00
10.0	41.0	30.0	16.0	37.5	——	1.0	40	20	175	20.9	5.7	C3D1U106+F00C00
12.0	41.0	30.0	16.0	37.5	——	1.0	40	20	175	17.4	6.9	C3D1U126+F00C00
15.0	41.0	33.5	18.5	37.5	——	1.0	40	20	175	13.9	8.6	C3D1U156+F00C00
20.0	42.0	40.0	20.0	37.5	10.0	1.0	40	20	175	10.4	11.5	C3D1U206+F01C00
22.0	42.0	40.0	20.0	37.5	10.0	1.0	40	20	175	9.5	12.6	C3D1U226+F01C00
25.0	41.0	37.0	22.0	37.5	12.7	1.0	40	20	175	8.4	14.4	C3D1U256+F02C00
30.0	42.0	44.0	24.0	37.5	12.7	1.0	40	20	175	7.0	17.2	C3D1U306+F02C00
35.0	42.0	44.0	24.0	37.5	12.7	1.0	40	20	175	6.0	20.1	C3D1U356+F02C00
40.0	42.0	45.0	30.0	37.5	12.7	1.0	40	20	175	5.2	23.0	C3D1U406+F02C00
45.0	42.0	45.0	30.0	37.5	12.7	1.0	40	20	175	4.6	25.8	C3D1U456+F02C00
50.0	42.0	50.0	35.0	37.5	20.0	1.0	40	20	175	4.2	28.7	C3D1U506+F03C00
55.0	42.0	50.0	35.0	37.5	20.0	1.0	40	20	175	3.8	31.6	C3D1U556+F03C00
60.0	42.0	50.0	35.0	37.5	20.0	1.0	40	20	175	3.5	34.5	C3D1U606+F03C00
65.0	42.0	55.0	40.0	37.5	20.0	1.0	40	20	175	3.2	37.3	C3D1U656+F03C00
70.0	42.0	55.0	40.0	37.5	20.0	1.0	40	20	175	3.0	40.2	C3D1U706+F03C00
75.0	42.0	55.0	40.0	37.5	20.0	1.0	40	20	175	2.8	43.1	C3D1U756+F03C00
80.0	42.0	60.0	45.0	37.5	20.0	1.0	40	20	175	2.6	45.9	C3D1U806+F03C00
85.0	42.0	60.0	45.0	37.5	20.0	1.0	40	20	175	2.5	48.8	C3D1U856+F03C00
90.0	42.0	60.0	45.0	37.5	20.0	1.0	40	20	175	2.3	51.7	C3D1U906+F03C00
95.0	42.0	60.0	45.0	37.5	20.0	1.0	40	20	175	2.2	54.5	C3D1U956+F03C00
40.0	57.0	45.0	25.0	52.5	12.7	1.2	20	36	350	10.4	11.5	C3D1U406+M02C00
45.0	57.0	45.0	25.0	52.5	12.7	1.2	20	36	350	9.3	12.9	C3D1U456+M02C00
50.0	57.0	45.0	25.0	52.5	12.7	1.2	20	36	350	8.4	14.4	C3D1U506+M02C00
55.0	57.0	45.0	30.0	52.5	12.7	1.2	20	36	350	7.6	15.8	C3D1U556+M02C00
60.0	57.0	45.0	30.0	52.5	12.7	1.2	20	36	350	7.0	17.2	C3D1U606+M02C00
65.0	57.0	45.0	30.0	52.5	12.7	1.2	20	36	350	6.4	18.7	C3D1U656+M02C00
70.0	57.0	50.0	35.0	52.5	20.0	1.2	20	36	350	6.0	20.1	C3D1U706+M03C00
75.0	57.0	50.0	35.0	52.5	20.0	1.2	20	36	350	5.6	21.5	C3D1U756+M03C00
80.0	57.0	50.0	35.0	52.5	20.0	1.2	20	36	350	5.2	23.0	C3D1U806+M03C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃, △T≤15.0℃

■ Dimensions(mm)

600 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4}) 1kHz	tgδ＜(10^{-4}) 10kHz	ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
85.0	57.0	50.0	35.0	52.5	20.0	1.2	20	36	350	4.9	24.4	C3D1U856+M03C00
90.0	57.0	55.0	45.0	52.5	20.0	1.2	20	36	350	4.6	25.8	C3D1U906+M03C00
95.0	57.0	55.0	45.0	52.5	20.0	1.2	20	36	350	4.4	27.3	C3D1U956+M03C00
100.0	57.0	55.0	45.0	52.5	20.0	1.2	20	36	350	4.2	28.7	C3D1U107+M03C00
110.0	57.0	55.0	45.0	52.5	20.0	1.2	20	36	350	3.8	31.6	C3D1U117+M03C00
120.0	57.0	55.0	45.0	52.5	20.0	1.2	20	36	350	3.5	34.5	C3D1U127+M03C00
130.0	57.0	55.0	45.0	52.5	20.0	1.2	20	36	350	3.2	37.3	C3D1U137+M03C00
140.0	57.0	65.0	50.0	52.5	20.0	1.2	20	36	350	3.0	40.2	C3D1U147+M03C00
150.0	57.0	65.0	50.0	52.5	20.0	1.2	20	36	350	2.8	43.1	C3D1U157+M03C00
160.0	57.0	65.0	50.0	52.5	20.0	1.2	20	36	350	2.6	45.9	C3D1U167+M03C00
170.0	57.0	65.0	50.0	52.5	20.0	1.2	20	36	350	2.5	48.8	C3D1U177+M03C00

800 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4}) 1kHz	tgδ＜(10^{-4}) 10kHz	ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
2.0	32.0	18.0	9.0	27.5	－－	0.8	65	10	95	56.7	2.3	C3D2K205+B00C00
3.0	32.0	20.0	11.0	27.5	－－	0.8	65	10	95	37.8	3.5	C3D2K305+B00C00
4.0	32.0	25.0	13.0	27.5	－－	0.8	65	10	95	28.4	4.7	C3D2K405+B00C00
5.0	32.0	24.5	15.0	27.5	－－	0.8	65	10	95	22.7	5.8	C3D2K505+B00C00
6.0	32.0	30.0	16.0	27.5	－－	0.8	65	10	95	18.9	7.0	C3D2K605+B00C00
7.0	32.0	30.0	16.0	27.5	－－	0.8	65	10	95	16.2	8.1	C3D2K705+B00C00
8.0	32.0	33.0	18.0	27.5	－－	0.8	65	10	95	14.2	9.3	C3D2K805+B00C00
9.0	32.0	33.0	18.0	27.5	－－	0.8	65	10	95	12.6	10.5	C3D2K905+B00C00
10.0	32.0	37.0	22.0	27.5	10.0	0.8	65	10	95	11.3	11.6	C3D2K106+B01C00
11.0	32.0	37.0	22.0	27.5	10.0	0.8	65	10	95	10.3	12.8	C3D2K116+B01C00
12.0	32.0	37.0	22.0	27.5	0.0	0.8	65	10	95	9.5	14.0	C3D2K126+B00C00
12.0	32.0	37.0	22.0	27.5	10.0	0.8	65	10	95	9.5	14.0	C3D2K126+B01C00
13.0	32.0	37.0	22.0	27.5	12.7	0.8	65	10	95	8.7	15.1	C3D2K136+B02C00
14.0	32.0	37.0	22.0	27.5	12.7	0.8	65	10	95	8.1	16.3	C3D2K146+B02C00
8.0	41.0	30.0	16.0	37.5	－－	1.0	30	18	160	23.9	5.0	C3D2K805+F00C00
9.0	41.0	30.0	16.0	37.5	－－	1.0	30	18	160	21.2	5.7	C3D2K905+F00C00
10.0	41.0	33.5	18.5	37.5	－－	1.0	30	18	160	19.1	6.3	C3D2K106+F00C00
12.0	41.0	33.5	18.5	37.5	－－	1.0	30	18	160	15.9	7.5	C3D2K126+F00C00
15.0	42.0	40.0	20.0	37.5	10.0	1.0	30	18	160	12.7	9.4	C3D2K156+F01C00
20.0	41.0	37.0	22.0	37.5	---	1.0	30	18	160	9.6	10.0	C3D2K206+F00C00
20.0	41.0	37.0	22.0	37.5	12.7	1.0	30	18	160	9.6	12.6	C3D2K206+F02C00
25.0	42.0	44.0	24.0	37.5	12.7	1.0	30	18	160	7.6	15.7	C3D2K256+F02C00
30.0	42.0	45.0	30.0	37.5	12.7	1.0	30	18	160	6.4	18.8	C3D2K306+F02C00
30.0	42.0	45.0	30.0	37.5	20.0	1.0	30	18	160	6.4	18.8	C3D2K306+F03C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃，△T≤15.0℃

Dimensions(mm)

800 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4}) 1kHz	tgδ＜(10^{-4}) 10kHz	ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
35.0	42.0	50.0	35.0	37.5	20.0	1.0	30	18	160	5.5	22.0	C3D2K356+F03C00
40.0	42.0	50.0	35.0	37.5	20.0	1.0	30	18	160	4.8	25.1	C3D2K406+F03C00
45.0	42.0	55.0	40.0	37.5	20.0	1.0	30	18	160	4.2	28.3	C3D2K456+F03C00
50.0	42.0	55.0	40.0	37.5	20.0	1.0	30	18	160	3.8	31.4	C3D2K506+F03C00
55.0	42.0	55.0	40.0	37.5	20.0	1.0	30	18	160	3.5	34.5	C3D2K556+F03C00
60.0	42.0	60.0	45.0	37.5	20.0	1.0	30	18	160	3.2	37.7	C3D2K606+F03C00
65.0	42.0	60.0	45.0	37.5	20.0	1.0	30	18	160	2.9	40.8	C3D2K656+F03C00
70.0	42.0	60.0	45.0	37.5	20.0	1.0	30	18	160	2.7	44.0	C3D2K706+F03C00
25.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	15.3	7.9	C3D2K256+M02C00
30.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	12.7	9.4	C3D2K306+M02C00
35.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	10.9	11.0	C3D2K356+M02C00
40.0	57.0	45.0	30.0	52.5	12.7	1.2	15	33	320	9.6	12.6	C3D2K406+M02C00
45.0	57.0	45.0	30.0	52.5	12.7	1.2	15	33	320	8.5	14.1	C3D2K456+M02C00
50.0	57.0	45.0	30.0	52.5	12.7	1.2	15	33	320	7.6	15.7	C3D2K506+M02C00
55.0	57.0	50.0	35.0	52.5	20.0	1.2	15	33	320	6.9	17.3	C3D2K556+M03C00
60.0	57.0	50.0	35.0	52.5	20.0	1.2	15	33	320	6.4	18.8	C3D2K606+M03C00
65.0	57.0	50.0	35.0	52.5	20.0	1.2	15	33	320	5.9	20.4	C3D2K656+M03C00
70.0	57.0	55.0	45.0	52.5	20.0	1.2	15	33	320	5.5	22.0	C3D2K706+M03C00
75.0	57.0	55.0	45.0	52.5	20.0	1.2	15	33	320	5.1	23.6	C3D2K756+M03C00
80.0	57.0	55.0	45.0	52.5	20.0	1.2	15	33	320	4.8	25.1	C3D2K806+M03C00
85.0	57.0	55.0	45.0	52.5	20.0	1.2	15	33	320	4.5	26.7	C3D2K856+M03C00
90.0	57.0	55.0	45.0	52.5	20.0	1.2	15	33	320	4.2	28.3	C3D2K906+M03C00
95.0	57.0	55.0	45.0	52.5	20.0	1.2	15	33	320	4.0	29.8	C3D2K956+M03C00
100.0	57.0	65.0	50.0	52.5	20.0	1.2	15	33	320	3.8	31.4	C3D2K107+M03C00
110.0	57.0	65.0	50.0	52.5	20.0	1.2	15	33	320	3.5	34.5	C3D2K117+M03C00
120.0	57.0	65.0	50.0	52.5	20.0	1.2	15	33	320	3.2	37.7	C3D2K127vM03C00
130.0	57.0	65.0	50.0	52.5	20.0	1.2	15	33	320	2.9	40.8	C3D2K137+M03C00

900 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4}) 1kHz	tgδ＜(10^{-4}) 10kHz	ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
1.0	32.0	18.0	9.0	27.5	－－	0.8	70	9	90	107.5	1.2	C3D1X105+B00C00
2.0	32.0	20.0	11.0	27.5	－－	0.8	70	9	90	53.7	2.5	C3D1X205+B00C00
3.0	32.0	22.0	13.0	27.5	－－	0.8	70	9	90	35.8	3.7	C3D1X305+B00C00
4.0	32.0	24.5	15.0	27.5	－－	0.8	70	9	90	26.9	4.9	C3D1X405+B00C00
5.0	32.0	30.0	16.0	27.5	－－	0.8	70	9	90	21.5	6.1	C3D1X505+B00C00
6.0	32.0	33.0	18.0	27.5	－－	0.8	70	9	90	17.9	7.4	C3D1X605+B00C00
7.0	32.0	33.0	18.0	27.5	－－	0.8	70	9	90	15.4	8.6	C3D1X705+B00C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃，△T≤15.0℃

■ Dimensions(mm)

900 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4})		ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
								1kHz	10kHz			
8.0	32.0	37.0	22.0	27.5	10.0	0.8	70	9	90	13.4	9.8	C3D1X805+B01C00
9.0	32.0	37.0	22.0	27.5	12.7	0.8	70	9	90	11.9	11.1	C3D1X905+B02C00
10.0	32.0	37.0	22.0	27.5	12.7	0.8	70	9	90	10.7	12.3	C3D1X106+B02C00
5.0	41.0	30.0	16.0	37.5	——	1.0	35	17	150	35.8	3.3	C3D1X505+F00C00
6.0	41.0	30.0	16.0	37.5	——	1.0	35	17	150	29.9	4.0	C3D1X605+F00C00
7.0	41.0	30.0	16.0	37.5	——	1.0	35	17	150	25.6	4.7	C3D1X705+F00C00
8.0	41.0	33.0	18.5	37.5	——	1.0	35	17	150	22.4	5.4	C3D1X805+F00C00
10.0	42.0	40.0	20.0	37.5	10.0	1.0	35	17	150	17.9	6.7	C3D1X106+F01C00
12.0	41.0	37.0	22.0	37.5	10.0	1.0	35	17	150	14.9	8.0	C3D1X126+F01C00
15.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	11.9	10.0	C3D1X156+F02C00
18.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	10.0	12.1	C3D1X186+F02C00
20.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	9.0	13.4	C3D1X206+F02C00
25.0	42.0	45.0	30.0	37.5	12.7	1.0	35	17	150	7.2	16.7	C3D1X256+F02C00
30.0	42.0	50.0	35.0	37.5	20.0	1.0	35	17	150	6.0	20.1	C3D1X306+F03C00
35.0	42.0	55.0	40.0	37.5	20.0	1.0	35	17	150	5.1	23.4	C3D1X356+F03C00
40.0	42.0	55.0	40.0	37.5	20.0	1.0	35	17	150	4.5	26.8	C3D1X406+F03C00
45.0	42.0	60.0	45.0	37.5	20.0	1.0	35	17	150	4.0	30.1	C3D1X456+F03C00
50.0	42.0	60.0	45.0	37.5	20.0	1.0	35	17	150	3.6	33.5	C3D1X506+F03C00
15.0	57.0	45.0	25.0	52.5	10.0	1.2	15	31	300	23.9	5.0	C3D1X156+M01C00
20.0	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	17.9	6.7	C3D1X206+M02C00
25.0	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	14.3	8.4	C3D1X256+M02C00
30.0	57.0	45.0	30.0	52.5	12.7	1.2	15	31	300	11.9	10.0	C3D1X306+M02C00
35.0	57.0	45.0	30.0	52.5	12.7	1.2	15	31	300	10.2	11.7	C3D1X356+M02C00
40.0	57.0	50.0	35.0	52.5	20.0	1.2	15	31	300	9.0	13.4	C3D1X406+M03C00
45.0	57.0	50.0	35.0	52.5	20.0	1.2	15	31	300	8.0	15.1	C3D1X456+M03C00
50.0	57.0	50.0	35.0	52.5	20.0	1.2	15	31	300	7.2	16.7	C3D1X506+M03C00
55.0	57.0	55.0	45.0	52.5	20.0	1.2	15	31	300	6.5	18.4	C3D1X556+M03C00
60.0	57.0	55.0	45.0	52.5	20.0	1.2	15	31	300	6.0	20.1	C3D1X606+M03C00
65.0	57.0	55.0	45.0	52.5	20.0	1.2	15	31	300	5.5	21.8	C3D1X656+M03C00
70.0	57.0	55.0	45.0	52.5	20.0	1.2	15	31	300	5.1	23.4	C3D1X706+M03C00
75.0	57.0	65.0	50.0	52.5	20.0	1.2	15	31	300	4.8	25.1	C3D1X756+M03C00
80.0	57.0	65.0	50.0	52.5	20.0	1.2	15	31	300	4.5	26.8	C3D1X806+M03C00
85.0	57.0	65.0	50.0	52.5	20.0	1.2	15	31	300	4.2	28.5	C3D1X856+M03C00
90.0	57.0	65.0	50.0	52.5	20.0	1.2	15	31	300	4.0	30.1	C3D1X906+M03C00
95.0	57.0	65.0	50.0	52.5	20.0	1.2	15	31	300	3.8	31.8	C3D1X956+M03C00
100.0	57.0	65.0	50.0	52.5	20.0	1.2	15	31	300	3.6	33.5	C3D1X107+M03C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃, △T≤15.0℃

■ Dimensions(mm)

1 000 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4})		ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
								1kHz	10kHz			
1.0	32.0	18.0	9.0	27.5	－－	0.8	75	8	80	95.5	1.4	C3D3A105+B00C00
2.0	32.0	22.0	13.0	27.5	－－	0.8	75	8	80	47.8	2.8	C3D3A205+B00C00
3.0	32.0	24.5	15.0	27.5	－－	0.8	75	8	80	31.8	4.1	C3D3A305+B00C00
4.0	32.0	30.0	16.0	27.5	－－	0.8	75	8	80	23.9	5.5	C3D3A405+B00C00
5.0	32.0	33.0	18.0	27.5	－－	0.8	75	8	80	19.1	6.9	C3D3A505+B00C00
6.0	32.0	33.0	18.0	27.5	－－	0.8	75	8	80	15.9	8.3	C3D3A605+B00C00
7.0	32.0	37.0	22.0	27.5	12.7	0.8	75	8	80	13.6	9.7	C3D3A705+B02C00
8.0	32.0	37.0	22.0	27.5	12.7	0.8	75	8	80	11.9	11.1	C3D3A805+B02C00
5.0	41.0	30.0	16.0	37.5	－－	1.0	37	15	140	33.4	3.6	C3D3A505+F00C00
6.0	41.0	30.0	16.0	37.5	－－	1.0	37	15	140	27.9	4.3	C3D3A605+F00C00
7.0	41.0	33.0	18.5	37.5	－－	1.0	37	15	140	23.9	5.0	C3D3A705+F00C00
8.0	41.0	33.0	18.5	37.5	－－	1.0	37	15	140	20.9	5.7	C3D3A805+F00C00
10.0	42.0	40.0	20.0	37.5	10.0	1.0	37	15	140	16.7	7.2	C3D3A106+F01C00
12.0	41.0	37.0	22.0	37.5	12.7	1.0	37	15	140	13.9	8.6	C3D3A126+F02C00
15.0	42.0	44.0	24.0	37.5	12.7	1.0	37	15	140	11.1	10.8	C3D3A156+F02C00
18.0	42.0	45.0	30.0	37.5	12.7	1.0	37	15	140	9.3	12.9	C3D3A186+F02C00
20.0	42.0	45.0	30.0	37.5	12.7	1.0	37	15	140	8.4	14.4	C3D3A206+F02C00
25.0	42.0	50.0	35.0	37.5	20.0	1.0	37	15	140	6.7	17.9	C3D3A256+F03C00
30.0	42.0	55.0	40.0	37.5	20.0	1.0	37	15	140	5.6	21.5	C3D3A306+F03C00
35.0	42.0	55.0	40.0	37.5	20.0	1.0	37	15	140	4.8	25.1	C3D3A356+F03C00
40.0	42.0	60.0	45.0	37.5	20.0	1.0	37	15	140	4.2	28.7	C3D3A406+F03C00
15.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	22.3	5.4	C3D3A156+M02C00
20.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	16.7	7.2	C3D3A206+M02C00
25.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	13.4	9.0	C3D3A256+M02C00
30.0	57.0	45.0	30.0	52.5	12.7	1.2	17	28	280	11.1	10.8	C3D3A306+M02C00
35.0	57.0	50.0	35.0	52.5	20.0	1.2	17	28	280	9.6	12.6	C3D3A356+M03C00
40.0	57.0	50.0	35.0	52.5	20.0	1.2	17	28	280	8.4	14.4	C3D3A406+M03C00
45.0	57.0	55.0	45.0	52.5	20.0	1.2	17	28	280	7.4	16.1	C3D3A456+M03C00
50.0	57.0	55.0	45.0	52.5	20.0	1.2	17	28	280	6.7	17.9	C3D3A506+M03C00
55.0	57.0	55.0	45.0	52.5	20.0	1.2	17	28	280	6.1	19.7	C3D3A556+M03C00
60.0	57.0	65.0	50.0	52.5	20.0	1.2	17	28	280	5.6	21.5	C3D3A606+M03C00
65.0	57.0	65.0	50.0	52.5	20.0	1.2	17	28	280	5.1	23.3	C3D3A656+M03C00
70.0	57.0	65.0	50.0	52.5	20.0	1.2	17	28	280	4.8	25.1	C3D3A706+M03C00
75.0	57.0	65.0	50.0	52.5	20.0	1.2	17	28	280	4.5	26.9	C3D3A756+M03C00
80.0	57.0	65.0	50.0	52.5	20.0	1.2	17	28	280	4.2	28.7	C3D3A806+M03C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃, △T≤15.0℃

■ Dimensions(mm)

1 100 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4})		ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
								1kHz	10kHz			
1.0	32.0	20.0	11.0	27.5	——	0.8	80	8	70	89.2	1.5	C3D1M105+B00C00
2.0	32.0	25.0	13.0	27.5	——	0.8	80	8	70	44.6	3.0	C3D1M205+B00C00
3.0	32.0	30.0	16.0	27.5	——	0.8	80	8	70	29.7	4.4	C3D1M305+B00C00
4.0	32.0	33.0	18.0	27.5	——	0.8	80	8	70	22.3	5.9	C3D1M405+B00C00
5.0	32.0	37.0	22.0	27.5	10.0	0.8	80	8	70	17.8	7.4	C3D1M505+B01C00
6.0	32.0	37.0	22.0	27.5	10.0	0.8	80	8	70	14.9	8.9	C3D1M605+B01C00
3.0	41.0	30.0	16.0	37.5	——	1.0	40	15	130	55.2	2.2	C3D1M305+F00C00
4.0	41.0	30.0	16.0	37.5	——	1.0	40	15	130	41.4	2.9	C3D1M405+F00C00
5.0	41.0	33.5	18.5	37.5	——	1.0	40	15	130	33.1	3.6	C3D1M505+F00C00
6.0	41.0	33.5	18.5	37.5	——	1.0	40	15	130	27.6	4.3	C3D1M605+F00C00
7.0	42.0	40.0	20.0	37.5	10.0	1.0	40	15	130	23.7	5.1	C3D1M705+F01C00
8.0	41.0	37.0	22.0	37.5	10.0	1.0	40	15	130	20.7	5.8	C3D1M805+F01C00
9.0	41.0	37.0	22.0	37.5	12.7	1.0	40	15	130	18.4	6.5	C3D1M905+F02C00
10.0	42.0	44.0	24.0	37.5	12.7	1.0	40	15	130	16.6	7.2	C3D1M106+F02C00
12.0	42.0	44.0	24.0	37.5	12.7	1.0	40	15	130	13.8	8.7	C3D1M126+F02C00
15.0	42.0	45.0	30.0	37.5	12.7	1.0	40	15	130	11.0	10.9	C3D1M156+F02C00
18.0	42.0	50.0	35.0	37.5	20.0	1.0	40	15	130	9.2	13.0	C3D1M186+F03C00
20.0	42.0	50.0	35.0	37.5	20.0	1.0	40	15	130	8.3	14.5	C3D1M206+F03C00
25.0	42.0	55.0	40.0	37.5	20.0	1.0	40	15	130	6.6	18.1	C3D1M256+F03C00
30.0	42.0	60.0	45.0	37.5	20.0	1.0	40	15	130	5.5	21.7	C3D1M306+F03C00
35.0	42.0	60.0	45.0	37.5	20.0	1.0	40	15	130	4.7	25.4	C3D1M356+F03C00
15.0	57.0	45.0	25.0	52.5	12.7	1.2	20	27	260	22.1	5.4	C3D1M156+M02C00
20.0	57.0	45.0	30.0	52.5	12.7	1.2	20	27	260	16.6	7.2	C3D1M206+M02C00
25.0	57.0	50.0	35.0	52.5	20.0	1.2	20	27	260	13.2	9.1	C3D1M256+M03C00
30.0	57.0	50.0	35.0	52.5	20.0	1.2	20	27	260	11.0	10.9	C3D1M306+M03C00
35.0	57.0	50.0	35.0	52.5	20.0	1.2	20	27	260	9.5	12.7	C3D1M356+M03C00
40.0	57.0	55.0	45.0	52.5	20.0	1.2	20	27	260	8.3	14.5	C3D1M406+M03C00
45.0	57.0	55.0	45.0	52.5	20.0	1.2	20	27	260	7.4	16.3	C3D1M456+M03C00
50.0	57.0	65.0	50.0	52.5	20.0	1.2	20	27	260	6.6	18.1	C3D1M506+M03C00
55.0	57.0	65.0	50.0	52.5	20.0	1.2	20	27	260	6.0	19.9	C3D1M556+M03C00
60.0	57.0	65.0	50.0	52.5	20.0	1.2	20	27	260	5.5	21.7	C3D1M606+M03C00
65.0	57.0	65.0	50.0	52.5	20.0	1.2	20	27	260	5.1	23.6	C3D1M65+M03C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃, △T≤15.0℃

■ Dimensions(mm)

1 200 Vdc												
C (μF)	W ±0.4,	H ±0.4	T ±0.4	P ±1.0	b ±0.5	d ±0.05	dV/dt (V/μs)	tgδ＜(10^{-4})		ESR (mΩ)(2)	I_{RMS} (A)(3)	Part number
								1kHz	10kHz			
1.0	32.0	20.0	11.0	27.5	——	0.8	90	7	55	70.1	1.9	C3D3L105+B00C00
2.0	32.0	24.5	15.0	27.5	——	0.8	90	7	55	35.0	3.8	C3D3L205+B00C00
3.0	32.0	30.0	16.0	27.5	——	0.8	90	7	55	23.4	5.7	C3D3L305+B00C00
4.0	32.0	33.0	18.0	27.5	——	0.8	90	7	55	17.5	7.5	C3D3L405+B00C00
5.0	32.0	37.0	22.0	27.5	10.0	0.8	90	7	55	14.0	9.4	C3D3L505+B01C00
3.0	41.0	30.0	16.0	37.5	——	1.0	45	13	100	42.5	2.8	C3D3L305+F00C00
4.0	41.0	30.0	16.0	37.5	——	1.0	45	13	100	31.8	3.8	C3D3L405+F00C00
5.0	41.0	33.5	18.5	37.5	——	1.0	45	13	100	25.5	4.7	C3D3L505+F00C00
6.0	41.0	40.0	20.0	37.5	——	1.0	45	13	100	21.2	5.7	C3D3L605+F00C00
7.0	42.0	37.0	22.0	37.5	10.0	1.0	45	13	100	18.2	6.6	C3D3L705+F01C00
8.0	41.0	44.0	24.0	37.5	12.7	1.0	45	13	100	15.9	7.5	C3D3L805+F02C00
9.0	41.0	44.0	24.0	37.5	12.7	1.0	45	13	100	14.2	8.5	C3D3L905+F02C00
10.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	12.7	9.4	C3D3L106+F02C00
12.0	42.0	45.0	30.0	37.5	12.7	1.0	45	13	100	10.6	11.3	C3D3L126+F02C00
15.0	42.0	50.0	35.0	37.5	20.0	1.0	45	13	100	8.5	14.1	C3D3L156+F03C00
18.0	42.0	50.0	35.0	37.5	20.0	1.0	45	13	100	7.1	17.0	C3D3L186+F03C00
20.0	42.0	55.0	40.0	37.5	20.0	1.0	45	13	100	6.4	18.8	C3D3L206+F03C00
25.0	42.0	60.0	45.0	37.5	20.0	1.0	45	13	100	5.1	23.6	C3D3L256+F03C00
12.0	57.0	45.0	25.0	52.5	12.7	1.2	23	24	200	21.2	5.7	C3D3L126+M02C00
15.0	57.0	45.0	25.0	52.5	12.7	1.2	23	24	200	17.0	7.1	C3D3L156+M02C00
20.0	57.0	45.0	30.0	52.5	12.7	1.2	23	24	200	12.7	9.4	C3D3L206+M02C00
25.0	57.0	50.0	35.0	52.5	20.0	1.2	23	24	200	10.2	11.8	C3D3L256+M03C00
30.0	57.0	55.0	45.0	52.5	20.0	1.2	23	24	200	8.5	14.1	C3D3L306+M03C00
35.0	57.0	55.0	45.0	52.5	20.0	1.2	23	24	200	7.3	16.5	C3D3L356+M03C00
40.0	57.0	55.0	45.0	52.5	20.0	1.2	23	24	200	6.4	18.8	C3D3L406+M03C00
45.0	57.0	65.0	50.0	52.5	20.0	1.2	23	24	200	5.7	21.2	C3D3L456+M03C00
50.0	57.0	65.0	50.0	52.5	20.0	1.2	23	24	200	5.1	23.6	C3D3L506+M03C00
55.0	57.0	65.0	50.0	52.5	20.0	1.2	23	24	200	4.6	25.9	C3D3L556+M03C00

Note (1)、"+"=capacitance tolerance code K=±10%, J=±5%

(2)、Equivalent series resistance typical values at 10kHz

(3)、Maximum rms current at 10kHz, T_{amb}=70℃, △T≤15.0℃

■Lifetime expectancy (typical curve)