SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C3D(S)-C01

Product Name	Miniature version of DC-Link Capacitor for PCB
Product Type:	C3D（S）
Product Code	
Customer	
Customer Code	
Issue Date	2025-06

Xiamen Faratronic Co. Ltd.			Approved by Customer
Drafted	Checked	Approved	
林骁屹			

represented by
alfatec GmbH & Co. KG

Meckenloher Straße 11
91126 Rednitzhembach
Germany

Tel. +49 / 9122 / 97 96 0
E-Mail: info@alfatec.de
Web: www.alfatec.de

*The specification are the property of Xiamen Faratronic Co.Ltd and shall not be copied or used as commercial

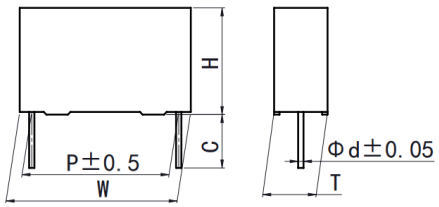
Version history

Current version	Date	Author	Change description

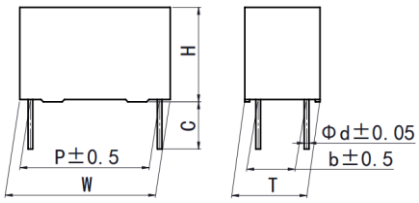
Miniature version of DC-Link Capacitor for PCB

■ Outline Drawing

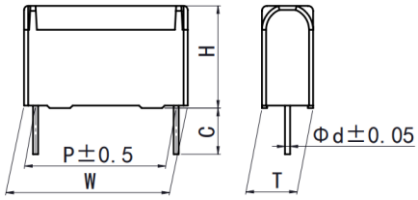
2 Pins



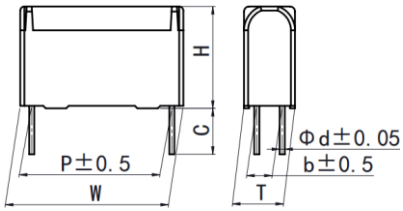
4 Pins



Square-bottom

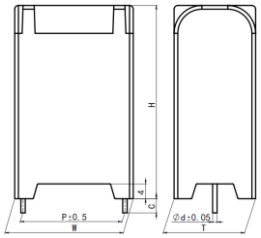


Square-bottom



Arc-bottom

High-boss and Arc-bottom



Arc-bottom

■ Features

- Metallized polypropylene structure.
- Excellent electric property.
- Plastic case (UL94 V-0), Filled with resin.
- High performance DC filtering applications

(i.e. transducers, Industrial and high-end power supplies and solar inverters)

■ Specifications

Reference Standard	GB/T 17702 (IEC 61071)
Climatic Category	40/85/56
Operating temperature (case)	-40℃~105℃ (+85℃ to +105℃: decreasing factor 1.35% per ℃ for $U_{N,\ 85℃}$)
$U_{N,\ 85℃}$	500Vdc,600Vdc,800Vdc,900Vdc,1 000Vdc,1 100Vdc,1 200Vdc, 1 300Vdc,1 400Vdc,1 500Vdc,1 600Vdc,1 700Vdc
Capacitance Tolerance	J (±5%), K (±10%)
Voltage Proof	1.5U_N (10s)
Insulation Resistance(IR×C_N)	≥10 000s (20℃, 100V, 1min)
Self Inductance (L_s)	<1nH per mm of lead spacing
Maximum peak current Î (A)	Î =C • dV/dt
Expected lifetime	100 000h @ U_N , Θ_{hs} =70℃

■ Safety Approvals

●		TUV Rheinland	EN 61071：2007，EN 61881-1：2011， 450Vdc ~ 3200Vdc，0.56μF~220μF，-40/85℃ Certificate No.：R 50266108
●		UL	UL 810 (construction only),Max. 5000Vdc,90℃ File No.：E256238, CCN: CZDS2

■ Part number code system

The 15 digits part number is formed as follow:

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

Digit 1 to 3 Series code C3D

Digit 4 to 5 D.C. rated voltage

2H=500V 1U=600V 2K=800V 1X=900V

3A=1 000V 1M=1 100V 3L=1 200V 2M=1 300V

3M=1 400V 4M=1 500V 3C=1 600V 7M=1 700V

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 F=37.5 mm M=52.5 mm

Digit 11 Internal use

Digit 12 to 15 Lead form and packaging code

■ Table 1 lead form and packaging code

Digit 12		Digit 13 and Digit 14		Digit 15	
Code	Explanation	Code	Explanation	Code	Explanation
0	2 pins	38	lead length 3.8mm	0	Length tolerance ±1.0mm
2	4 pins b=12.7mm	C0	Standard lead length 5.5mm	2	Length tolerance ±0.5mm
A	4 pins b=20.3mm				
B	4 pins b=10.2mm				

■ Technical data (mm)

$U_{N,\ 85°C}$: 500Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
4.0	32.0	18.0	9.0	27.5	-	0.8	60	10	110	26.9	3.4	C3D2H405+BS0***
4.5K	32.0	18.0	9.0	27.5	-	0.8	60	10	110	25.3	3.6	C3D2H455KBS0***
6.0	32.0	20.0	11.0	27.5	-	0.8	60	10	110	18.7	4.5	C3D2H605+BS0***
7.0	32.0	22.0	13.0	27.5	-	0.8	60	10	110	16.5	5.2	C3D2H705+BS0***
8.0K	32.0	22.0	13.0	27.5	-	0.8	60	10	110	15.6	5.4	C3D2H805KBS0***
9.0	32.0	25.0	13.0	27.5	-	0.8	60	10	110	13.6	6.1	C3D2H905+BS0***
10.0	32.0	24.5	15.0	27.5	-	0.8	60	10	110	12.6	6.6	C3D2H106+BS0***
12.0K	32.0	28.0	14.0	27.5	-	0.8	60	10	110	11.4	7.2	C3D2H126KBS0***
15.0	32.0	30.0	16.0	27.5	-	0.8	60	10	110	9.1	8.6	C3D2H156+BS0***
20.0K	32.0	33.0	18.0	27.5	-	0.8	60	10	110	7.6	10.2	C3D2H206KBS0***
27.0	32.0	37.0	22.0	27.5	-	0.8	60	10	110	5.8	12.0	C3D2H276+BS0***
●35.0	32.0	52.0	22.0	27.5	-	1.2	60	10	110	4.9	15.1	C3D2H356+BS0***
★18.0K	41.0	30.0	16.0	37.5	-	1.0	29	15	140	8.8	9.5	C3D2H186KFS0***
★20.0	41.0	33.5	18.5	37.5	-	1.0	29	15	140	7.8	10.8	C3D2H206+FS0***
★25.0	41.0	33.5	18.5	37.5	-	1.0	29	15	140	6.5	11.8	C3D2H256+FS0***
★30.0	42.0	35.0	20.0	37.5	-	1.0	29	15	140	5.7	13.2	C3D2H306+FS0***
★35.0	42.0	36.0	24.0	37.5	10.2	1.0	29	15	140	5.1	14.7	C3D2H356+FSB***
★38.0	42.0	36.0	24.0	37.5	10.2	1.0	29	15	140	4.8	15.1	C3D2H386+FSB***
★40.0	42.0	39.0	24.0	37.5	10.2	1.0	29	15	140	4.9	15.0	C3D2H406+FSB***
★50.0K	41.0	41.0	26.0	37.5	10.2	1.0	29	15	140	4.7	15.7	C3D2H506KFSB***
★55.0	42.0	42.0	28.0	37.5	10.2	1.0	29	15	140	4.2	17.3	C3D2H556+FSB***
★60.0	42.0	45.0	30.0	37.5	12.7	1.2	29	15	140	3.8	18.7	C3D2H606+FS2***
★65.0	42.0	45.0	30.0	37.5	12.7	1.2	29	15	140	3.6	20.0	C3D2H656+FS2***
★70.0	42.0	46.0	35.0	37.5	20.3	1.2	29	15	140	3.5	20.5	C3D2H706+FSA***
★75.0	42.0	46.0	35.0	37.5	20.3	1.2	29	15	140	3.4	21.9	C3D2H756+FSA***
★85.0	42.0	56.0	30.0	37.5	12.7	1.2	29	15	140	3.3	22.3	C3D2H856+FS2***
★90.0K	42.0	50.0	35.0	37.5	20.3	1.2	29	15	140	3.1	23.7	C3D2H906KFSA***
★95.0	42.0	55.0	35.0	37.5	20.3	1.2	29	15	140	3.1	23.6	C3D2H956+FSA***
★100.0K	42.0	55.0	35.0	37.5	20.3	1.2	29	15	140	3.0	25.0	C3D2H107KFSA***
★110.0	42.0	55.0	40.0	37.5	20.3	1.2	29	15	140	3.0	24.8	C3D2H117+FSA***
★120.0K	42.0	62.0	35.0	37.5	20.3	1.2	29	15	140	2.8	26.8	C3D2H127KFSA***
★140.0	42.0	65.0	40.0	37.5	20.3	1.2	29	15	140	2.8	27.0	C3D2H147+F1A***
★140.0	42.0	60.0	45.0	37.5	20.3	1.2	29	15	140	2.5	30.1	C3D2H147+FSA***
★80.0K	57.0	45.0	25.0	52.5	12.7	1.2	14	35	350	3.6	19.5	C3D2H806KMS2***
★90.0	57.0	47.5	27.0	52.5	12.7	1.2	14	35	350	3.2	21.5	C3D2H906+MS2***
★100.0	57.0	50.0	30.0	52.5	12.7	1.2	14	35	350	3.0	23.0	C3D2H107+MS2***
★110.0K	57.0	50.0	30.0	52.5	12.7	1.2	14	35	350	2.9	23.5	C3D2H117KMS2***
★120.0K	57.0	54.0	30.0	52.5	12.7	1.2	14	35	350	3.0	23.3	C3D2H127KM12***
★120.0	57.0	50.0	35.0	52.5	20.3	1.2	14	35	350	2.9	24.5	C3D2H127+MSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 600Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
3.0	32.0	18.0	9.0	27.5	-	0.8	65	10	100	29.0	3.3	C3D1U305+BS0***
4.0	32.0	20.0	11.0	27.5	-	0.8	65	10	100	22.0	4.1	C3D1U405+BS0***
5.0	32.0	22.0	13.0	27.5	-	0.8	65	10	100	18.2	4.9	C3D1U505+BS0***
6.0K	32.0	22.0	13.0	27.5	-	0.8	65	10	100	16.4	5.2	C3D1U605KBS0***
7.0K	32.0	25.0	13.0	27.5	-	0.8	65	10	100	14.5	5.8	C3D1U705KBS0***
8.0K	32.0	24.5	15.0	27.5	-	0.8	65	10	100	13.1	6.4	C3D1U805KBS0***
9.0K	32.0	28.0	14.0	27.5	-	0.8	65	10	100	12.0	7.0	C3D1U905KBS0***
10.0	32.0	30.0	16.0	27.5	-	0.8	65	10	100	10.6	7.9	C3D1U106+BS0***
12.0K	32.0	30.0	16.0	27.5	-	0.8	65	10	100	9.6	8.4	C3D1U126KBS0***
15.0K	32.0	33.0	18.0	27.5	-	0.8	65	10	100	8.1	9.8	C3D1U156KBS0***
20.0	32.0	37.0	22.0	27.5	-	0.8	65	10	100	6.1	12.0	C3D1U206+BS0***
●30.0K	32.0	52.0	22.0	27.5	-	1.2	65	10	100	5.0	15.1	C3D1U306KBS0***
★15.0K	41.0	30.0	16.0	37.5	-	1.0	31	15	150	8.7	9.6	C3D1U156KFS0***
★18.0	41.0	33.5	18.5	37.5	-	1.0	31	15	150	7.2	11.3	C3D1U186+FS0***
★20.0K	41.0	33.5	18.5	37.5	-	1.0	31	15	150	7.0	11.5	C3D1U206KFS0***
★25.0	42.0	36.0	24.0	37.5	10.2	1.0	31	15	150	5.6	14.0	C3D1U256+FS0***
★30.0K	42.0	36.0	24.0	37.5	10.2	1.0	31	15	150	5.1	14.7	C3D1U306KFSB***
★35.0	41.0	41.0	26.0	37.5	10.2	1.0	31	15	150	4.4	16.8	C3D1U356+FSB***
★40.0	41.0	42.0	28.0	37.5	10.2	1.0	31	15	150	4.0	18.1	C3D1U406+FSB***
★45.0K	42.0	50.0	24.0	37.5	10.2	1.0	31	15	150	3.9	19.0	C3D1U456KFSB***
★50.0K	42.0	45.0	30.0	37.5	12.7	1.2	31	15	150	3.7	19.9	C3D1U506KF72***
★50.0K	42.0	45.0	30.0	37.5	20.3	1.2	31	15	150	3.6	21.1	C3D1U506KFSA***
★55.0	42.0	46.0	35.0	37.5	20.3	1.2	31	15	150	3.4	21.7	C3D1U556+FSA***
★60.0K	42.0	46.0	35.0	37.5	20.3	1.2	31	15	150	3.4	21.8	C3D1U606KFSA***
★70.0	42.0	55.0	35.0	37.5	20.3	1.2	31	15	150	3.0	24.8	C3D1U706+FSA***
★75.0K	42.0	55.0	35.0	37.5	20.3	1.2	31	15	150	3.0	24.7	C3D1U756KFSA***
★80.0	42.0	55.0	40.0	37.5	20.3	1.2	31	15	150	2.9	26.5	C3D1U806+FSA***
★85.0K	42.0	55.0	40.0	37.5	20.3	1.2	31	15	150	2.9	26.3	C3D1U856KFSA***
★90.0	42.0	65.0	40.0	37.5	20.3	1.2	31	15	150	2.8	28.6	C3D1U906+FSA***
★95.0	42.0	65.0	40.0	37.5	20.3	1.2	31	15	150	2.7	28.9	C3D1U956+FSA***
★100.0	42.0	65.0	40.0	37.5	20.3	1.2	31	15	150	2.7	29.1	C3D1U107+FSA***
★110.0K	42.0	60.0	45.0	37.5	20.3	1.2	31	15	150	2.7	29.4	C3D1U117KFSA***
★60.0K	57.0	45.0	25.0	52.5	12.7	1.2	16	35	350	3.9	18.8	C3D1U606KMS2***
★65.0	57.0	43.5	30.0	52.5	12.7	1.2	16	35	350	3.5	20.4	C3D1U656+MS2***
★70.0K	57.0	47.5	27.0	52.5	12.7	1.2	16	35	350	3.5	20.7	C3D1U706KMS2***
★75.0	57.0	50.0	30.0	52.5	12.7	1.2	16	35	350	3.2	22.4	C3D1U756+MS2***
★80.0	57.0	50.0	30.0	52.5	12.7	1.2	16	35	350	3.1	22.8	C3D1U806+MS2***
★90.0K	57.0	54.0	30.0	52.5	12.7	1.2	16	35	350	3.0	23.8	C3D1U906KMS2***
★95.0K	57.0	50.0	35.0	52.5	20.3	1.2	16	35	350	3.0	24.3	C3D1U956KMSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 800Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
2.2	32.0	18.0	9.0	27.5	-	0.8	67	11	100	34.3	3.1	C3D2K225+BS0***
3.5K	32.0	20.0	11.0	27.5	-	0.8	67	11	100	23.5	4.0	C3D2K355KBS0***
4.0	32.0	22.0	13.0	27.5	-	0.8	67	11	100	20.1	4.7	C3D2K405+BS0***
5.0	32.0	25.0	13.0	27.5	-	0.8	67	11	100	16.6	6.4	C3D2K505+BS0***
6.0K	32.0	24.5	15.0	27.5	-	0.8	67	11	100	15.0	6.9	C3D2K605KBS0***
7.0K	32.0	28.0	14.0	27.5	-	0.8	67	11	100	13.3	7.6	C3D2K705KBS0***
8.0	32.0	30.0	16.0	27.5	-	0.8	67	11	100	11.4	8.6	C3D2K805+BS0***
10.0	32.0	33.0	18.0	27.5	-	0.8	67	11	100	9.6	11.4	C3D2K106+BS0***
12.0	32.0	33.0	21.0	27.5	-	0.8	67	11	100	8.3	12.0	C3D2K126+BS0***
15.0	32.0	37.0	22.0	27.5	-	0.8	67	11	100	7.0	12.0	C3D2K156+BS0***
●22.0K	32.0	52.0	22.0	27.5	-	1.2	67	11	100	5.6	14.2	C3D2K226KBS0***
★10.0	41.0	30.0	16.0	37.5	-	1.0	29	20	175	10.4	8.7	C3D2K106+FS0***
★15.0K	41.0	33.5	18.5	37.5	-	1.0	29	20	175	7.7	10.8	C3D2K156KFS0***
★20.0	42.0	36.0	24.0	37.5	10.2	1.0	29	20	175	5.8	13.7	C3D2K206+FSB***
★22.0K	42.0	36.0	24.0	37.5	10.2	1.0	29	20	175	5.7	13.8	C3D2K226KFSB***
★25.0	41.0	41.0	26.0	37.5	10.2	1.0	29	20	175	4.9	15.8	C3D2K256+FSB***
★27.0	41.0	41.0	26.0	37.5	10.2	1.0	29	20	175	4.7	16.2	C3D2K276+FSB***
★30.0	42.0	42.0	28.0	37.5	10.2	1.0	29	20	175	4.4	17.3	C3D2K306+FSB***
★35.0	42.0	45.0	30.0	37.5	12.7	1.2	29	20	175	4.0	19.1	C3D2K356+FS2***
★40.0	42.0	46.0	35.0	37.5	20.3	1.2	29	20	175	3.6	20.9	C3D2K406+FSA***
★45.0	42.0	56.0	30.0	37.5	12.7	1.2	29	20	175	3.4	22.3	C3D2K456+FS2***
★50.0K	42.0	56.0	30.0	37.5	12.7	1.2	29	20	175	3.3	22.8	C3D2K506KF12***
★50.0K	42.0	50.0	35.0	37.5	20.3	1.2	29	20	175	3.3	22.6	C3D2K506KFSA***
★55.0	42.0	55.0	35.0	37.5	20.3	1.2	29	20	175	3.1	24.5	C3D2K556+FSA***
★60.0	42.0	55.0	40.0	37.5	20.3	1.2	29	20	175	2.9	26.0	C3D2K606+FSA***
★65.0K	42.0	55.0	40.0	37.5	20.3	1.2	29	20	175	2.9	26.0	C3D2K656KFSA***
★70.0	42.0	65.0	40.0	37.5	20.3	1.2	29	20	175	2.8	28.5	C3D2K706+FSA***
★80.0K	42.0	65.0	40.0	37.5	20.3	1.2	29	20	175	2.7	29.0	C3D2K806KF1A***
★80.0K	42.0	60.0	45.0	37.5	20.3	1.2	29	20	175	2.7	28.9	C3D2K806KFSA***
★50.0	57.0	43.5	30.0	52.5	12.7	1.2	15	36	350	3.9	20.2	C3D2K506+M42***
★50.0	57.0	43.5	30.0	52.5	20.3	1.2	15	36	350	4.0	19.6	C3D2K506+MSA***
★55.0	57.0	50.0	30.0	52.5	12.7	1.2	15	36	350	3.7	21.7	C3D2K556+MS2***
★60.0	57.0	50.0	30.0	52.5	12.7	1.2	15	36	350	3.5	22.3	C3D2K606+MS2***
★70.0K	57.0	54.0	30.0	52.5	12.7	1.2	15	36	350	3.3	23.7	C3D2K706KM12***
★70.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	3.2	24.2	C3D2K706+MSA***

■ Technical data (mm)

$U_{N,\ 85°C}$:9 00Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
2.0	32.0	18.0	9.0	27.5	-	0.8	67	10	95	37.0	2.9	C3D1X205+BS0***
3.0	32.0	20.0	11.0	27.5	-	0.8	67	10	95	25.5	3.9	C3D1X305+BS0***
4.0K	32.0	22.0	13.0	27.5	-	0.8	67	10	95	20.8	5.6	C3D1X405KBS0***
5.0K	32.0	25.0	13.0	27.5	-	0.8	67	10	95	17.2	6.9	C3D1X505KBS0***
6.0	32.0	28.0	14.0	27.5	-	0.8	67	10	95	14.1	8.3	C3D1X605+BS0***
7.0	32.0	30.0	16.0	27.5	-	0.8	67	10	95	12.5	9.2	C3D1X705+BS0***
8.0K	32.0	30.0	16.0	27.5	-	0.8	67	10	95	11.8	10.0	C3D1X805KBS0***
10.0K	32.0	33.0	18.0	27.5	-	0.8	67	10	95	9.9	11.3	C3D1X106KBS0***
12.0K	32.0	33.0	21.0	27.5	-	0.8	67	10	95	8.5	12.0	C3D1X126KBS0***
15.0K	32.0	37.0	22.0	27.5	-	0.8	67	10	95	7.1	12.0	C3D1X156KBS0***
●18.0	32.0	52.0	22.0	27.5	-	1.2	67	10	95	5.9	13.7	C3D1X186+BS0***
★9.0K	41.0	30.0	16.0	37.5	-	1.0	29	18	160	11.3	8.3	C3D1X905KFS0***
★10.0	41.0	33.5	18.5	37.5	-	1.0	29	18	160	9.9	9.5	C3D1X106+FS0***
★12.0	41.0	33.5	18.5	37.5	-	1.0	29	18	160	8.6	10.3	C3D1X126+FS0***
★15.0K	42.0	35.0	20.0	37.5	-	1.0	29	18	160	7.5	11.4	C3D1X156KFS0***
★18.0K	42.0	36.0	24.0	37.5	10.2	1.0	29	18	160	6.5	12.9	C3D1X186KFSB***
★20.0	42.0	39.0	24.0	37.5	10.2	1.0	29	18	160	5.8	14.1	C3D1X206+FSB***
★25.0K	41.0	41.0	26.0	37.5	10.2	1.0	29	18	160	5.1	15.5	C3D1X256KFSB***
★27.0	42.0	50.0	24.0	37.5	10.2	1.0	29	18	160	4.7	17.2	C3D1X276+FSB***
★30.0	42.0	45.0	30.0	37.5	12.7	1.2	29	18	160	4.4	18.1	C3D1X306+FS2***
★35.0	42.0	46.0	35.0	37.5	20.3	1.2	29	18	160	4.0	20.0	C3D1X356+FSA***
★40.0	42.0	56.0	30.0	37.5	12.7	1.2	29	18	160	3.7	21.5	C3D1X406+F12***
★40.0	42.0	50.0	35.0	37.5	20.3	1.2	29	18	160	3.7	21.5	C3D1X406+FSA***
★45.0	42.0	55.0	35.0	37.5	20.3	1.2	29	18	160	3.4	23.1	C3D1X456+FSA***
★50.0K	42.0	55.0	35.0	37.5	20.3	1.2	29	18	160	3.4	23.3	C3D1X506KFSA***
★55.0	42.0	55.0	40.0	37.5	20.3	1.2	29	18	160	3.1	25.4	C3D1X556+FSA***
★60.0K	42.0	62.0	35.0	37.5	20.3	1.2	29	18	160	3.1	25.6	C3D1X606KFSA***
★70.0K	42.0	65.0	40.0	37.5	20.3	1.2	29	18	160	2.8	28.2	C3D1X706KF1A***
★70.0K	42.0	60.0	45.0	37.5	20.3	1.2	29	18	160	2.9	28.1	C3D1X706KFSA***
★40.0K	57.0	45.0	25.0	52.5	12.7	1.2	14	33	320	4.6	18.0	C3D1X406KMS2***
★45.0K	57.0	47.5	27.0	52.5	12.7	1.2	14	33	320	4.2	19.4	C3D1X456KMS2***
50.0	57.0	45.0	35.0	52.5	12.7	1.2	14	33	320	3.8	21.3	C3D1X506+MS2***
50.0	57.0	45.0	35.0	52.5	20.3	1.2	14	33	320	3.9	21.1	C3D1X506+MSA***
★60.0K	57.0	54.0	30.0	52.5	12.7	1.2	14	33	320	3.5	22.9	C3D1X606KM22***
★60.0	57.0	50.0	35.0	52.5	20.3	1.2	14	33	320	3.4	23.4	C3D1X606+M1A***

■ Technical data (mm)

$U_{N,\ 85°C}$: 1000Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
2.0K	32.0	18.0	9.0	27.5	-	0.8	70	9	90	37.6	2.9	C3D3A205KBS0***
3.0	32.0	22.0	13.0	27.5	-	0.8	70	9	90	24.7	4.2	C3D3A305+BS0***
4.0	32.0	24.5	15.0	27.5	-	0.8	70	9	90	19.1	6.1	C3D3A405+BS0***
5.0K	32.0	28.0	14.0	27.5	-	0.8	70	9	90	16.6	6.8	C3D3A505KBS0***
6.0	32.0	30.0	16.0	27.5	-	0.8	70	9	90	13.6	8.8	C3D3A605+BS0***
6.5K	32.0	30.0	16.0	27.5	-	0.8	70	9	90	13.6	8.9	C3D3A655KBS0***
8.0K	32.0	33.0	18.0	27.5	-	0.8	70	9	90	11.5	10.0	C3D3A805KBS0***
10.0	32.0	37.0	22.0	27.5	-	0.8	70	9	90	9.1	11.9	C3D3A106+BS0***
12.0K	32.0	37.0	22.0	27.5	-	0.8	70	9	90	8.3	12.0	C3D3A126KBS0***
●14.0K	32.0	52.0	22.0	27.5	-	1.2	70	9	90	6.6	14.0	C3D3A146KBS0***
★6.0	41.0	30.0	16.0	37.5	-	1.0	33	17	150	13.4	8.2	C3D3A605+FS0***
★6.8K	41.0	30.0	16.0	37.5	-	1.0	33	17	150	12.7	8.4	C3D3A685KFS0***
★8.0	41.0	33.5	18.5	37.5	-	1.0	33	17	150	10.6	9.9	C3D3A805+FS0***
★9.0	41.0	33.5	18.5	37.5	-	1.0	33	17	150	9.7	10.4	C3D3A905+FS0***
★10.0	42.0	35.0	20.0	37.5	-	1.0	33	17	150	9.0	11.2	C3D3A106+FS0***
★12.0	42.0	36.0	24.0	37.5	10.2	1.0	33	17	150	7.8	12.6	C3D3A126+FSB***
★15.0	42.0	39.0	24.0	37.5	10.2	1.0	33	17	150	6.5	14.3	C3D3A156+FSB***
★18.0K	41.0	41.0	26.0	37.5	10.2	1.0	33	17	150	6.0	15.4	C3D3A186KFSB***
★20.0K	42.0	42.0	28.0	37.5	10.2	1.0	33	17	150	5.6	16.5	C3D3A206KFSB***
★22.0	42.0	45.0	30.0	37.5	12.7	1.2	33	17	150	5.0	18.2	C3D3A226+FS2***
★25.0	42.0	46.0	35.0	37.5	20.3	1.2	33	17	150	4.6	19.9	C3D3A256+FSA***
★30.0	42.0	56.0	30.0	37.5	12.7	1.2	33	17	150	4.1	21.9	C3D3A306+F12***
★30.0	42.0	50.0	35.0	37.5	20.3	1.2	33	17	150	4.1	21.9	C3D3A306+FSA***
★35.0	42.0	55.0	35.0	37.5	20.3	1.2	33	17	150	3.7	23.8	C3D3A356+FSA***
★40.0	42.0	55.0	40.0	37.5	20.3	1.2	33	17	150	3.4	25.8	C3D3A406+FSA***
★43.0K	42.0	62.0	35.0	37.5	20.3	1.2	33	17	150	3.4	25.9	C3D3A436KFSA***
★50.0	42.0	65.0	40.0	37.5	20.3	1.2	33	17	150	3.1	29.2	C3D3A506+F1A***
★50.0	42.0	60.0	45.0	37.5	20.3	1.2	33	17	150	3.1	29.0	C3D3A506+FSA***
★30.0K	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	5.1	18.4	C3D3A306KMS2***
★35.0	57.0	50.0	30.0	52.5	12.7	1.2	15	31	300	4.4	21.4	C3D3A356+MS2***
★40.0K	57.0	50.0	30.0	52.5	12.7	1.2	15	31	300	4.1	22.0	C3D3A406KMS2***
★45.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	3.7	24.3	C3D3A456+MSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 1100Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
1.2	32.0	18.0	9.0	27.5	-	0.8	75	8	80	42.5	1.7	C3D1M125+BS0***
2.0K	32.0	20.0	11.0	27.5	-	0.8	75	8	80	27.8	3.2	C3D1M205KBS0***
3.0	32.0	24.5	15.0	27.5	-	0.8	75	8	80	18.3	4.7	C3D1M305+BS0***
4.0	32.0	30.0	16.0	27.5	-	0.8	75	8	80	14.3	5.5	C3D1M405+BS0***
5.0K	32.0	30.0	16.0	27.5	-	0.8	75	8	80	12.4	7.1	C3D1M505KBS0***
6.0K	32.0	33.0	18.0	27.5	-	0.8	75	8	80	10.8	8.2	C3D1M605KBS0***
8.0	32.0	37.0	22.0	27.5	-	0.8	75	8	80	8.1	10.4	C3D1M805+BS0***
●12.0K	32.0	52.0	22.0	27.5	-	1.2	75	8	80	7.0	13.6	C3D1M126KBS0***
★5.0	41.0	30.0	16.0	37.5	-	1.0	36	15	140	14.7	7.8	C3D1M505+FS0***
★6.0K	41.0	30.0	16.0	37.5	-	1.0	36	15	140	13.2	8.3	C3D1M605KFS0***
★7.0	41.0	33.5	18.5	37.5	-	1.0	36	15	140	11.1	9.6	C3D1M705+FS0***
★8.0K	41.0	33.5	18.5	37.5	-	1.0	36	15	140	10.5	9.9	C3D1M805KFS0***
★9.0	42.0	35.0	20.0	37.5	-	1.0	36	15	140	9.2	11.1	C3D1M905+FS0***
★10.0K	42.0	35.0	20.0	37.5	-	1.0	36	15	140	8.9	11.2	C3D1M106KFS0***
★12.0K	42.0	36.0	24.0	37.5	10.2	1.0	36	15	140	7.7	12.7	C3D1M126KFSB***
★15.0	41.0	41.0	26.0	37.5	10.2	1.0	36	15	140	6.2	15.1	C3D1M156+FSB***
★18.0K	42.0	50.0	24.0	37.5	10.2	1.0	36	15	140	5.7	16.8	C3D1M186KFSB***
★20.0	42.0	45.0	30.0	37.5	12.7	1.2	36	15	140	5.1	18.1	C3D1M206+F32***
★20.0	42.0	45.0	30.0	37.5	20.3	1.2	36	15	140	5.2	17.8	C3D1M206+FSA***
★22.0	42.0	46.0	35.0	37.5	20.3	1.2	36	15	140	4.8	19.5	C3D1M226+FSA***
★25.0	42.0	56.0	30.0	37.5	12.7	1.2	36	15	140	4.4	21.0	C3D1M256+F12***
★25.0	42.0	50.0	35.0	37.5	20.3	1.2	36	15	140	4.4	21.0	C3D1M256+FSA***
★30.0	42.0	55.0	35.0	37.5	20.3	1.2	36	15	140	3.9	23.2	C3D1M306+FSA***
★35.0	42.0	62.0	35.0	37.5	20.3	1.2	36	15	140	3.6	25.4	C3D1M356+FSA***
★40.0	42.0	65.0	40.0	37.5	20.3	1.2	36	15	140	3.3	27.9	C3D1M406+FSA***
★45.0K	42.0	65.0	40.0	37.5	20.3	1.2	36	15	140	3.1	28.6	C3D1M456KF1A***
★45.0K	42.0	60.0	45.0	37.5	20.3	1.2	36	15	140	3.2	28.5	C3D1M456KFSA***
★25.0K	57.0	45.0	25.0	52.5	12.7	1.2	16	28	280	5.6	16.9	C3D1M256KMS2***
★27.0	57.0	43.5	30.0	52.5	12.7	1.2	16	28	280	5.0	18.4	C3D1M276+MS2***
★30.0K	57.0	47.5	27.0	52.5	12.7	1.2	16	28	280	4.9	18.8	C3D1M306KMS2***
★35.0K	57.0	50.0	30.0	52.5	12.7	1.2	16	28	280	4.3	20.7	C3D1M356KMS2***
★40.0K	57.0	54.0	30.0	52.5	12.7	1.2	16	28	280	4.0	22.3	C3D1M406KM42***
★40.0K	57.0	50.0	35.0	52.5	20.3	1.2	16	28	280	4.0	22.2	C3D1M406KMSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 1200Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
1.0K	32.0	18.0	9.0	27.5	-	0.8	81	8	70	45.8	2.1	C3D3L105KBS0***
2.0	32.0	25.0	13.0	27.5	-	0.8	81	8	70	22.7	4.5	C3D3L205+BS0***
3.0	32.0	30.0	16.0	27.5	-	0.8	81	8	70	14.7	6.4	C3D3L305+BS0***
4.0	32.0	33.0	18.0	27.5	-	0.8	81	8	70	12.4	8.0	C3D3L405+BS0***
5.0	32.0	33.0	21.0	27.5	-	0.8	81	8	70	10.3	9.1	C3D3L505+BS0***
6.0	32.0	37.0	22.0	27.5	-	0.8	81	8	70	8.9	10.3	C3D3L605+BS0***
●9.2K	32.0	52.0	22.0	27.5	-	1.2	81	8	70	7.7	12.9	C3D3L925KBS0***
★4.0	41.0	30.0	16.0	37.5	-	1.0	39	15	130	13.2	8.3	C3D3L405+FS0***
★5.0	41.0	33.5	18.5	37.5	-	1.0	39	15	130	10.9	9.7	C3D3L505+FS0***
★6.0K	41.0	33.5	18.5	37.5	-	1.0	39	15	130	9.8	10.3	C3D3L605KFS0***
★7.0K	42.0	35.0	20.0	37.5	-	1.0	39	15	130	8.7	11.3	C3D3L705KFS0***
★8.0	42.0	36.0	24.0	37.5	10.2	1.0	39	15	130	7.5	12.8	C3D3L805+FSB***
★9.0K	42.0	36.0	24.0	37.5	10.2	1.0	39	15	130	7.2	13.1	C3D3L905KFSB***
★10.0K	42.0	39.0	24.0	37.5	10.2	1.0	39	15	130	6.7	14.0	C3D3L106KFSB***
★12.0K	41.0	41.0	26.0	37.5	10.2	1.0	39	15	130	5.8	15.6	C3D3L126KFSB***
★15.0	42.0	45.0	30.0	37.5	12.7	1.2	39	15	130	4.7	18.8	C3D3L156+FS2***
★18.0	42.0	46.0	35.0	37.5	20.3	1.2	39	15	130	4.1	21.1	C3D3L186+FSA***
★20.0	42.0	56.0	30.0	37.5	12.7	1.2	39	15	130	3.8	22.5	C3D3L206+F12***
★20.0	42.0	50.0	35.0	37.5	20.3	1.2	39	15	130	3.8	22.5	C3D3L206+FSA***
★22.0	42.0	55.0	35.0	37.5	20.3	1.2	39	15	130	3.6	23.9	C3D3L226+FSA***
★25.0	42.0	55.0	40.0	37.5	20.3	1.2	39	15	130	3.3	25.9	C3D3L256+FSA***
★27.0	42.0	62.0	35.0	37.5	20.3	1.2	39	15	130	3.2	26.6	C3D3L276+FSA***
★30.0	42.0	65.0	40.0	37.5	20.3	1.2	39	15	130	3.0	28.9	C3D3L306+FSA***
★33.0	42.0	65.0	40.0	37.5	20.3	1.2	39	15	130	2.8	30.1	C3D3L336+F1A***
★33.0	42.0	60.0	45.0	37.5	20.3	1.2	39	15	130	2.9	29.9	C3D3L336+FSA***
★20.0	57.0	43.5	30.0	52.5	12.7	1.2	19	27	260	4.7	18.9	C3D3L206+MS2***
★22.0K	57.0	47.5	27.0	52.5	12.7	1.2	19	27	260	4.6	19.3	C3D3L226KMS2***
★25.0	57.0	50.0	30.0	52.5	12.7	1.2	19	27	260	4.0	21.5	C3D3L256+MS2***
★28.0	57.0	54.0	30.0	52.5	12.7	1.2	19	27	260	3.7	23.0	C3D3L286+MS2***
★30.0	57.0	50.0	35.0	52.5	20.3	1.2	19	27	260	3.6	23.6	C3D3L306+MSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 1300Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
1.2	32.0	20.0	11.0	27.5	-	0.8	89	7	65	33.8	3.3	C3D2M125+BS0***
1.5	32.0	25.0	13.0	27.5	-	0.8	89	7	65	27.2	4.1	C3D2M155+BS0***
2.0	32.0	24.5	15.0	27.5	-	0.8	89	7	65	21.1	4.8	C3D2M205+BS0***
3.0	32.0	30.0	16.0	27.5	-	0.8	89	7	65	14.7	7.4	C3D2M305+BS0***
4.0K	32.0	33.0	18.0	27.5	-	0.8	89	7	65	12.1	8.6	C3D2M405KBS0***
5.0K	32.0	33.0	21.0	27.5	-	0.8	89	7	65	10.0	9.7	C3D2M505KBS0***
6.0K	32.0	37.0	22.0	27.5	-	0.8	89	7	65	8.7	11.0	C3D2M605KBS0***
●7.5K	32.0	52.0	22.0	27.5	-	1.2	89	7	65	8.5	12.3	C3D2M755KBS0***
★3.0	41.0	30.0	16.0	37.5	-	1.0	43	13	120	15.6	7.6	C3D2M305+FS0***
★4.0	41.0	33.5	18.5	37.5	-	1.0	43	13	120	12.1	9.2	C3D2M405+FS0***
★5.0K	41.0	33.5	18.5	37.5	-	1.0	43	13	120	10.5	9.9	C3D2M505KFS0***
★6.0K	42.0	35.0	20.0	37.5	-	1.0	43	13	120	9.0	11.1	C3D2M605KFS0***
★7.0	42.0	36.0	24.0	37.5	10.2	1.0	43	13	120	7.6	12.7	C3D2M705+FSB***
★8.0	42.0	39.0	24.0	37.5	10.2	1.0	43	13	120	6.9	13.8	C3D2M805+FSB***
★9.0	41.0	41.0	26.0	37.5	10.2	1.0	43	13	120	6.3	14.9	C3D2M905+FSB***
★10.0K	41.0	41.0	26.0	37.5	10.2	1.0	43	13	120	6.1	15.1	C3D2M106KFSB***
★12.0	42.0	45.0	30.0	37.5	12.7	1.2	43	13	120	5.1	17.9	C3D2M126+FS2***
★15.0	42.0	46.0	35.0	37.5	20.3	1.2	43	13	120	4.3	20.5	C3D2M156+FSA***
★20.0K	42.0	55.0	35.0	37.5	20.3	1.2	43	13	120	3.6	23.9	C3D2M206KFSA***
★22.0	42.0	55.0	40.0	37.5	20.3	1.2	43	13	120	3.3	26.1	C3D2M226+FSA***
★24.0K	42.0	62.0	35.0	37.5	20.3	1.2	43	13	120	3.3	26.3	C3D2M246KFSA***
★25.0	42.0	65.0	40.0	37.5	20.3	1.2	43	13	120	3.1	28.7	C3D2M256+FSA***
★28.0K	42.0	65.0	40.0	37.5	20.3	1.2	43	13	120	3.0	29.2	C3D2M286KF1A***
★28.0	42.0	60.0	45.0	37.5	20.3	1.2	43	13	120	2.9	29.7	C3D2M286+FSA***
★18.0	57.0	43.5	30.0	52.5	12.7	1.2	20	24	230	5.1	18.2	C3D2M186+MS2***
★20.0	57.0	50.0	30.0	52.5	12.7	1.2	20	24	230	6.3	19.7	C3D2M206+MS2***
★22.0K	57.0	50.0	30.0	52.5	12.7	1.2	20	24	230	4.5	19.9	C3D2M226KMS2***
★25.0K	57.0	54.0	30.0	52.5	12.7	1.2	20	24	230	4.1	21.5	C3D2M256KMS2***
★27.0K	57.0	50.0	35.0	52.5	20.3	1.2	20	24	230	4.0	22.2	C3D2M276KMSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 1400Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
1.0	32.0	20.0	11.0	27.5	-	0.8	92	6	60	37.5	3.1	C3D3M105+BS0***
2.0	32.0	28.0	14.0	27.5	-	0.8	92	6	60	19.6	5.2	C3D3M205+BS0***
3.0	32.0	33.0	18.0	27.5	-	0.8	92	6	60	13.7	7.0	C3D3M305+BS0***
4.0K	32.0	33.0	21.0	27.5	-	0.8	92	6	60	11.2	8.1	C3D3M405KBS0***
5.0K	32.0	37.0	22.0	27.5	-	0.8	92	6	60	9.4	10.0	C3D3M505KBS0***
●6.5K	32.0	52.0	22.0	27.5	-	1.2	92	6	60	9.1	11.0	C3D3M655KBS0***
★3.0	41.0	30.0	16.0	37.5	-	1.0	46	12	120	14.6	7.3	C3D3M305+FS0***
★4.0	41.0	33.5	18.5	37.5	-	1.0	46	12	120	11.3	8.8	C3D3M405+FS0***
★5.0	42.0	35.0	20.0	37.5	-	1.0	46	12	120	9.4	10.1	C3D3M505+FS0***
★6.0	42.0	36.0	24.0	37.5	10.2	1.0	46	12	120	8.1	11.5	C3D3M605+FSB***
★7.0	42.0	39.0	24.0	37.5	10.2	1.0	46	12	120	7.2	12.6	C3D3M705+FSB***
★8.0	41.0	41.0	26.0	37.5	10.2	1.0	46	12	120	6.5	13.6	C3D3M805+FSB***
★10.0K	42.0	42.0	28.0	37.5	10.2	1.0	46	12	120	5.7	15.1	C3D3M106KFSB***
★12.0	42.0	46.0	35.0	37.5	20.3	1.2	46	12	120	4.7	18.1	C3D3M126+FSA***
★15.0	42.0	56.0	30.0	37.5	12.7	1.2	46	12	120	4.0	20.4	C3D3M156+F12***
★15.0	42.0	50.0	35.0	37.5	20.3	1.2	46	12	120	4.0	20.4	C3D3M156+FSA***
★18.0	42.0	55.0	40.0	37.5	20.3	1.2	46	12	120	3.5	23.3	C3D3M186+FSA***
★20.0	42.0	62.0	35.0	37.5	20.3	1.2	46	12	120	3.3	24.3	C3D3M206+FSA***
★25.0K	42.0	65.0	40.0	37.5	20.3	1.2	46	12	120	3.0	27.2	C3D3M256KF1A***
★25.0K	42.0	60.0	45.0	37.5	20.3	1.2	46	12	120	3.0	27.0	C3D3M256KFSA***
★15.0	57.0	43.5	30.0	52.5	12.7	1.2	22	22	220	5.6	15.9	C3D3M156+MS2***
★20.0K	57.0	50.0	30.0	52.5	12.7	1.2	22	22	220	4.6	18.4	C3D3M206KMS2***
★22.0K	57.0	54.0	30.0	52.5	12.7	1.2	22	22	220	4.4	19.5	C3D3M226KM12***
★22.0	57.0	50.0	35.0	52.5	20.3	1.2	22	22	220	4.3	19.9	C3D3M226+MSA***

■ Technical data (mm)

$U_{N,\ 85°C}$: 1500Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4}) 1kHz	tanδ × (10^{-4}) 10kHz	ESR @10kHz (mΩ)	I_{max} (A)	Part number
1.0	32.0	22.0	13.0	27.5	-	0.8	95	6	55	34.5	3.5	C3D4M105+BS0***
2.2	32.0	30.0	16.0	27.5	-	0.8	95	6	55	16.6	5.9	C3D4M225+BS0***
3.0K	32.0	33.0	18.0	27.5	-	0.8	95	6	55	13.3	7.6	C3D4M305KBS0***
★4.0	32.0	37.0	22.0	27.5	-	0.8	95	6	55	10.0	9.6	C3D4M405+BS0***
●5.5	32.0	52.0	22.0	27.5	-	1.2	95	6	55	9.4	10.0	C3D4M555+BS0***
★2.5	41.0	30.0	16.0	37.5	-	1.0	46	11	110	16.1	6.4	C3D4M255+FS0***
★3.0	41.0	33.5	18.5	37.5	-	1.0	46	11	110	13.8	7.3	C3D4M305+FS0***
★4.0	42.0	35.0	20.0	37.5	-	1.0	46	11	110	10.7	8.7	C3D4M405+FS0***
★5.0	42.0	36.0	24.0	37.5	10.2	1.0	46	11	110	8.9	10.1	C3D4M505+FSB***
★6.0	42.0	39.0	24.0	37.5	10.2	1.0	46	11	110	7.7	11.2	C3D4M605+FSB***
★7.0	41.0	41.0	26.0	37.5	10.2	1.0	46	11	110	6.8	12.3	C3D4M705+FSB***
★8.0	42.0	42.0	28.0	37.5	10.2	1.0	46	11	110	6.2	13.3	C3D4M805+FSB***
★9.0	42.0	45.0	30.0	37.5	12.7	1.2	46	11	110	5.7	14.5	C3D4M905+FS2***
★10.0K	42.0	45.0	30.0	37.5	12.7	1.2	46	11	110	5.5	14.7	C3D4M106KFS2***
★12.0K	42.0	46.0	35.0	37.5	20.3	1.2	46	11	110	4.8	16.6	C3D4M126KFSA***
★15.0K	42.0	55.0	35.0	37.5	20.3	1.2	46	11	110	4.1	19.2	C3D4M156KFSA***
★18.0K	42.0	62.0	35.0	37.5	20.3	1.2	46	11	110	3.6	21.5	C3D4M186KFSA***
★20.0	42.0	65.0	40.0	37.5	20.3	1.2	46	11	110	3.2	23.9	C3D4M206+FSA***
★22.0K	42.0	65.0	40.0	37.5	20.3	1.2	46	11	110	3.2	24.1	C3D4M226KF1A***
★22.0K	42.0	60.0	45.0	37.5	20.3	1.2	46	11	110	3.3	24.0	C3D4M226KFSA***
★15.0	57.0	50.0	30.0	52.5	12.7	1.2	24	20	210	5.2	15.8	C3D4M156+MS2***
★18.0	57.0	54.0	30.0	52.5	12.7	1.2	24	20	210	4.5	17.5	C3D4M186+MS2***
★20.0K	57.0	50.0	35.0	52.5	20.3	1.2	24	20	210	4.4	17.9	C3D4M206KMSA***

$U_{N,\ 85°C}$: 1600Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4}) 1kHz	tanδ × (10^{-4}) 10kHz	ESR @10kHz (mΩ)	I_{max} (A)	Part number
★2.0	41.0	30.0	16.0	37.5	-	1.0	50	11	110	18.2	5.5	C3D3C205+FS0***
★3.0	41.0	33.5	18.5	37.5	-	1.0	50	11	110	12.6	7.1	C3D3C305+FS0***
★3.5	42.0	35.0	20.0	37.5	-	1.0	50	11	110	11.1	7.9	C3D3C355+FS0***
★4.0K	42.0	35.0	20.0	37.5	-	1.0	50	11	110	10.5	8.1	C3D3C405KFS0***
★4.5	42.0	36.0	24.0	37.5	10.2	1.0	50	11	110	8.9	9.2	C3D3C455+FSB***
★5.0	42.0	39.0	24.0	37.5	10.2	1.0	50	11	110	8.3	9.9	C3D3C505+FSB***
★6.0	41.0	41.0	26.0	37.5	10.2	1.0	50	11	110	7.2	11.0	C3D3C605+FSB***
★7.0K	42.0	42.0	28.0	37.5	10.2	1.0	50	11	110	6.7	11.7	C3D3C705KFSB***
★7.5K	42.0	50.0	24.0	37.5	10.2	1.0	50	11	110	6.4	12.3	C3D3C755KFSB***
★8.0K	42.0	45.0	30.0	37.5	12.7	1.2	50	11	110	6.1	12.7	C3D3C805KFS2***
★9.5	42.0	46.0	35.0	37.5	20.3	1.2	50	11	110	5.2	14.7	C3D3C955+FSA***
★10.0	42.0	56.0	30.0	37.5	12.7	1.2	50	11	110	5.0	15.3	C3D3C106+F12***
★10.0	42.0	50.0	35.0	37.5	20.3	1.2	50	11	110	5.0	15.2	C3D3C106+FSA***
★12.0	42.0	55.0	35.0	37.5	20.3	1.2	50	11	110	4.4	16.9	C3D3C126+FSA***
★15.0K	42.0	62.0	35.0	37.5	20.3	1.2	50	11	110	3.9	18.8	C3D3C156KFSA***
★18.0K	42.0	65.0	40.0	37.5	20.3	1.2	50	11	110	3.5	21.2	C3D3C186KF1A***
★18.0K	42.0	60.0	45.0	37.5	20.3	1.2	50	11	110	3.5	21.1	C3D3C186KFSA***
★12.0K	57.0	47.5	27.0	52.5	12.7	1.2	26	20	210	6.1	12.8	C3D3C126KMS2***
★15.0	57.0	54.0	30.0	52.5	12.7	1.2	26	20	210	4.9	15.3	C3D3C156+MS2***

■ Technical data (mm)

$U_{N,\ 85℃}$: 1700Vdc												
C_N (μF)	W ±1.0	H ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kHz (mΩ)	I_{max} (A)	Part number
								1kHz	10kHz			
★2.0	41.0	30.0	16.0	37.5	-	1.0	52	11	110	17.5	5.6	C3D7M205+FS0***
★3.0K	41.0	33.5	18.5	37.5	-	1.0	52	11	110	12.7	7.1	C3D7M305KFS0***
★3.5K	42.0	35.0	20.0	37.5	-	1.0	52	11	110	11.2	7.8	C3D7M355KFS0***
★4.0	42.0	36.0	24.0	37.5	10.2	1.0	52	11	110	9.6	8.9	C3D7M405+FSB***
★5.0	41.0	41.0	26.0	37.5	10.2	1.0	52	11	110	8.0	10.3	C3D7M505+FSB***
★6.0	42.0	42.0	28.0	37.5	10.2	1.0	52	11	110	6.9	11.5	C3D7M605+FSB***
★7.0	42.0	45.0	30.0	37.5	12.7	1.2	52	11	110	6.1	12.7	C3D7M705+FS2***
★8.0	42.0	46.0	35.0	37.5	20.3	1.2	52	11	110	5.6	14.0	C3D7M805+FSA***
★9.0	42.0	46.0	35.0	37.5	20.3	1.2	52	11	110	5.1	14.7	C3D7M905+FSA***
★10.0K	42.0	56.0	30.0	37.5	12.7	1.2	52	11	110	5.0	15.3	C3D7M106KF52***
★10.0K	42.0	50.0	35.0	37.5	20.3	1.2	52	11	110	5.0	15.3	C3D7M106KFSA***
★12.0K	42.0	55.0	35.0	37.5	20.3	1.2	52	11	110	4.4	17.0	C3D7M126KFSA***
★15.0	42.0	65.0	40.0	37.5	20.3	1.2	52	11	110	3.6	20.8	C3D7M156+F1A***
★15.0	42.0	60.0	45.0	37.5	20.3	1.2	52	11	110	3.6	20.7	C3D7M156+FSA***
★10.0	57.0	43.5	30.0	52.5	12.7	1.2	27	20	210	6.6	12.1	C3D7M106+MS2***
★12.0	57.0	50.0	30.0	52.5	12.7	1.2	27	20	210	5.7	13.7	C3D7M126+MS2***
★15.0K	57.0	50.0	35.0	52.5	20.3	1.2	27	20	210	5.0	15.2	C3D7M156KMSA***

Note: 1. "+" =capacitance tolerance code J=±5%,K=±10%.

2. "***" = lead form and packaging code.

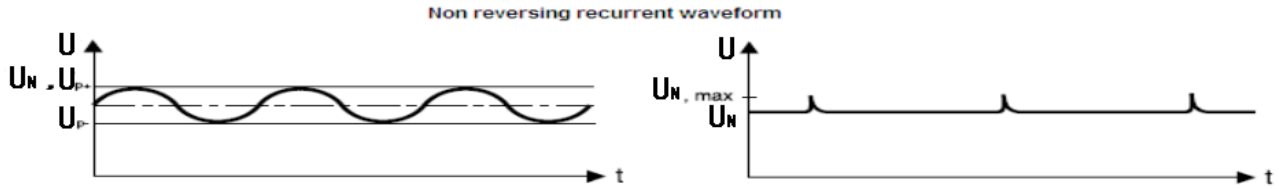
3. "I_{max}" =Maximum r.m.s current at 10kHz, θ_{amb}=70℃, $\triangle\theta_{case}$=15.0℃.

4. "ESR" are typical values.

5. "★" = Arc-bottom of the outer case. "●" = High boss and arc-bottom of the outer shell.

■ Typical waveforms

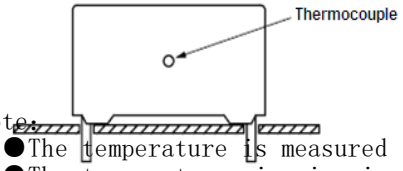
These capacitors are only suitable for DC applications. It means the voltage applied to the capacitors must be unidirectional ripple voltage.



Note:

- The peak voltage(U_{P+}) shall not be greater then the rated DC voltage(U_N);
- The peak-to-peak ripple voltage(U_{P-P}) shall not be greater then 0.3× (U_N);
- The maximum component surface temperature rise must be lower than 15℃.

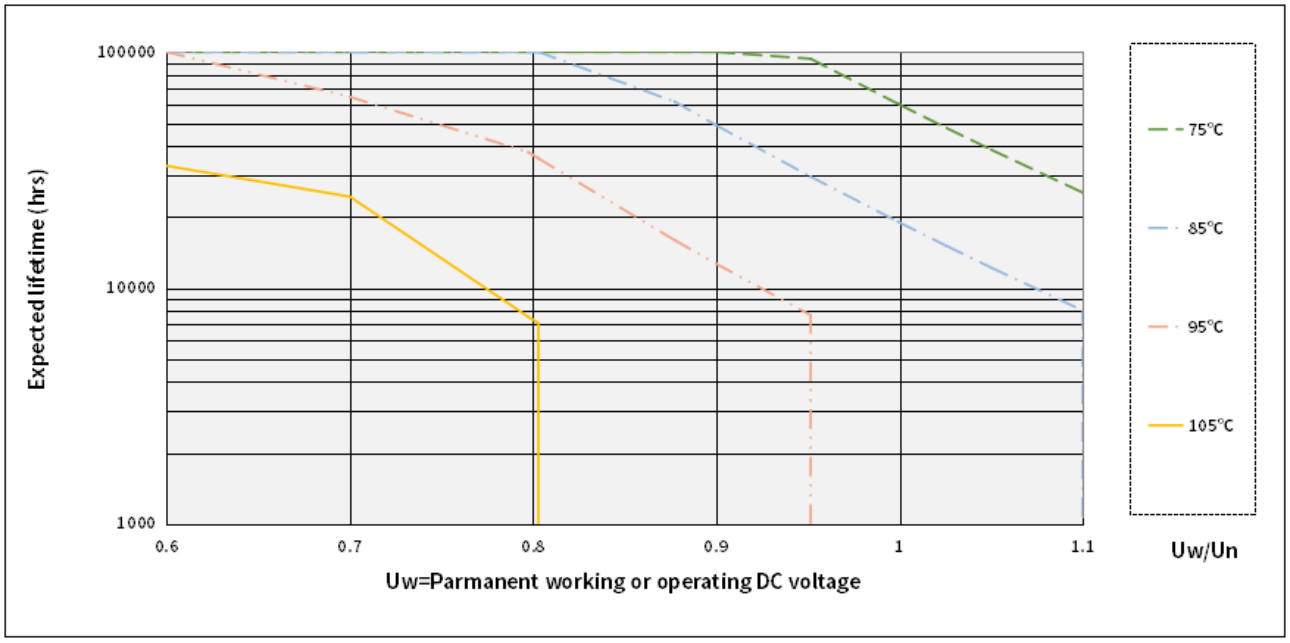
■ Measuring the component temperature



Note:

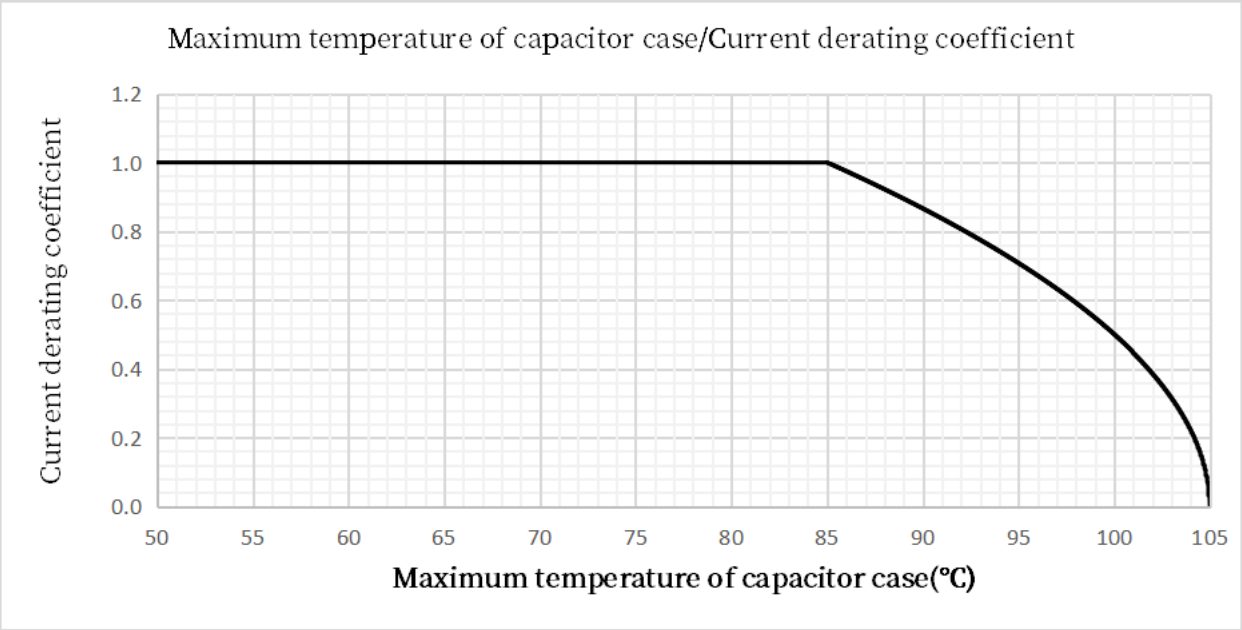
- The temperature is measured in unloaded (T_{amb}) and maximum loaded condition (T_c) ;
- The temperature rise is given by $\triangle T = T_c - T_{amb}$;
- To avoid thermal radiation or convection, the capacitor must be tested in a closed area from air circulation.

■ Lifetime expectancy (typical curve)



■ Current derating for film capacitors with altitude and temperature

- Altitude derating: When the altitude exceeds 4000m, the current derates by 3% for every 500m increase;
- Current derating curve with temperature:



Note:

▲ When the maximum temperature of capacitor case is lower than 85℃, the current coefficient is 1;

▲ When the temperature of the capacitor case rises, the derating shall be according to the above current derating coefficient.

■ Test Method And Performance

No.	Item	Performance	Testing Method IEC 61071
1	External inspection	Legible marking and finish as Specified Dimensions: see specific drawing	Check for finish, marking and overall dimensions
	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Robustness of terminations	There shall be no visible damage	Tensile U_{a1} Wire diameter load d ≤0.8mm 10N 0.8 mm<d ≤1.2mm 20N Bending U_{b1} Wire diameter load d≤0.8 mm 5N 0.8 mm<d≤1.2 mm 10N 4×90°, duration 2s to 3s
	Resistance to soldering heat	There shall be no visible damage.	Solder temperature: 260℃±5℃ Immersion time: 10s±1s
	Final measurements	|ΔC/C|≤0.5%(relative to the initial value) Increase of tanδ: ≤0.005	
2	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Vibration (when capacitor weight ＞ 3g, the capacitor body needs to be fixed)	There shall be no evidence damage	f=10 Hz to 55Hz a=±0.35mm Test duration per axis = 10 frequency cycles (3 axes offset from each other by 90℃), 1 octave/min, the total times are 135min for 3 axes.
	Impacts (when capacitor weight ＞ 3g, the capacitor body needs to be fixed)	There shall be no evidence damage	1 000times, Acceleration: 390m/s^2 Pulse duration: 6ms
2	Final measurements	|ΔC/C|≤0.5%(relative to the initial value) Increase of tanδ: ≤0.005	
3	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Surge discharge test		U_{test}≤1.1 U_{NDC}, $\hat{I}_{test}$=1.1$\hat{I}_s$ Number of discharges: 5
	Final measurements	|ΔC/C|≤1% (relative to the initial value) tanδ: ≤1.2×$tan\delta_0$(the initial tanδ)+0.0001	

No.	Item	Performance	Testing Method IEC 61071
4	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Self-healing		Voltage: $1.5U_{NDC}$ Duration: 10s If fewer than five clearing occur during this time, the voltage shall be increased slowly until five clearings have occurred since the start of the test or until the voltage has reached $2.5U_{NDC}$ If fewer than five clearings have occurred when the voltage has reached $2.5U_{NDC}$, for a time of 10s, the test shall be finished.
		$\|\Delta C/C\| \leqslant 0.5\%$ (relative to the initial value) tanδ: $\leq 1.1 \times \tan\delta_0$(the initial tanδ)+0.0001	
5	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Change of temperature	There shall be no evidence of deterioration	Test: Na θ_A=-40℃, θ_B=+85℃ 5 cycles, Duration: t=30min
	Final measurements	$\|\Delta C/C\| \leqslant 2.0\%$(relative to the initial value) Increase of tanδ:≤0.015	
6	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Damp heat, steady state	There shall be no evidence of deterioration.	Temperature: 40℃ ±2℃ Humidity: 93±3 %RH Duration: 56 days
	Voltage test between terminals	There shall be no permanent puncturing or flashover.	$1.5U_{NDC}$, 60s
	Voltage test between terminals and case	There shall be no permanent puncturing or flashover.	2 000V_{AC}, 10s
	Final measurements	$\|\Delta C/C\| \leqslant 2.0\%$(relative to the initial value) Increase of tanδ:≤0.015	
7	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Thermal stability test	Throughout the last 6h, the temperature of the case near of the top rise shall not increase by more than 1℃	Temperature: ambient temperature Test current: 1.1Irms Test frequency: 10kHz Test time: 48h During the last 6h, the temperature of the case near of the top rise shall be measured per 1.5h.
	Final measurements	$\|\Delta C/C\| \leqslant 2.0\%$(relative to the initial value) tanδ:$\leq 1.2 \times \tan\delta_0$(the initial tanδ)+0.015	

No.	Item	Performance	Testing Method IEC 61071
8	Initial measurements	Capacitance at 1kHz tanδ at 10kHz	
	Endurance		Measuring procedure: (1) 1.3U_{NDC}, 85℃, 500h (2) Charging and discharging: Times: 1 000 dv/dt: according to the technical data (3) 1.3U_{NDC}, 85℃, 500h
	Final measurements	|ΔC/C|≤3.0%(relative to the initial value) Increase of tanδ:≤0.015	

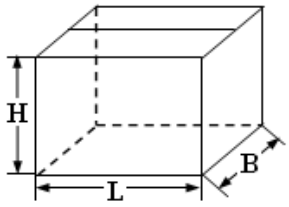
■ Marking(For Example)

Including TUV	Without TUV
C3D 1100VDC 30μF±10% SH 40/85/56 P30001 E256238 EN61071	C3D 1100VDC 30μF±10% SH 40/85/56 P30001 E256238
C3D P30001 1100VDC 30μF±10% 40/85/56 SH E256238 EN61071	C3D P30001 1100VDC 30μF±10% 40/85/56 SH E256238
C3D 800VDC 3.0μF±10% 40/85/56 SH E256238 EN61071 and 305K800 P10001	/

1100VDC 800VDC 800	Rated voltage	30.0μF±10% 3.0μF±10% 305K	Rated capacitance and tolerance
SH	Self-healing capacitor	40/85/56	Climate category
P30001 P10001	Product traceability information		UL Approved
	TUV Approved	E256238	UL Approved File No.
EN61071	TUV apply standard		

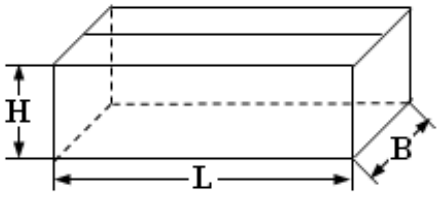
■ Packing box sizes(mm)(For example)

1. Out packing box for bulk



L:375±5
B:375±5
H:265±5

2. Inner packing box for bulk



L:355±3
B:175±3
H:118±3

■ Storage conditions

▲ It must be noted that the solderability of the terminals may be deteriorated when stored in an atmosphere filled with moisture, dust, or a reactive oxidizing gas. (hydrogen chloride, hydrogen sulfide, sulfuric acid, etc.)

▲ It shouldn't be located in particularly high temperature and high humidity, it must submit to the following conditions(unchanging primal package):

Temperature: -40℃ to 35℃ ;

Humidity: Average per year≤70%RH ;
For 30 full days randomly distributed throughout the year≤80%RH.
Storage time for tinned lead wire: (from the date marked on the capacitor's body or the label glued to the package) :
Bulk(packed with plastic bag): ≤24 months ;
Taping and line up: ≤12 months .