



SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.C3D-C13

Product Name DC-Link Capacitor for PCB

Product Type: C3D

Product Code

Customer

Customer Code

Issue Date

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



厦门法拉电子股份有限公司

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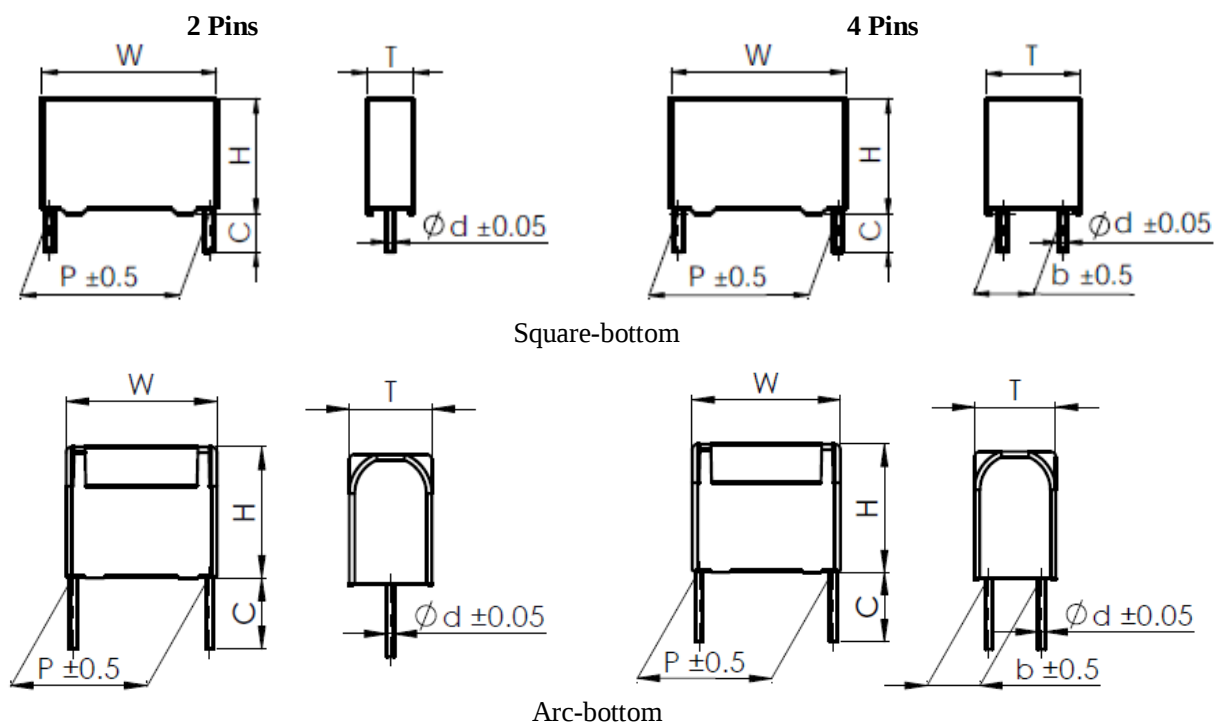


Version history

Current version	Date	Author	Change description

DC-Link Capacitor for PCB

■ Outline Drawing



■ Features

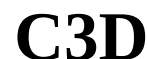
- Metallized polypropylene structure.
- Excellent electric property.
- Plastic case (UL94 V-0), Filled with resin.
- High performance DC filtering applications
(i.e. transducers, Industrial and high-end power supplies and solar inverters)

■ Safety Approvals

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

■ Specifications

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



The 18 digits part number is formed as follow:

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
Digit 6 to 8	Rated capacitance value	for example: 256=25×106pF=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 to 15	Lead form and packaging code	
Digit 16 to 18	Internal use	

Digit 12		Digit 13 and Digit 14		Digit 15	
Code	Explanation	Code	Explanation	Code	Explanation
0	Two pins (bulk)	C0 38	Standard lead length 5.5mm lead length 3.8mm	0 2	Length tolerance $\pm 1.0\text{mm}$ Length tolerance $\pm 0.5\text{mm}$
1	Our pins (bulk) b=10.0mm				
2	Four pins (bulk) b=12.7mm				
3	Four pins (bulk) b=20.0mm				
4	Four pins (bulk) b=15.0mm				
A	four pins(bulk) b=20.3mm				
B	four pins(bulk) b=10.2mm				
C	four pins(bulk) b=5.1mm				
D	four pins(bulk) b=15.2mm				



■ Technical data (mm)

$U_{N,85^{\circ}\text{C}} : 500\text{Vdc}$												
C_N (μF)	W ± 1.0	H ± 1.0	T ± 1.0	P ± 0.5	b ± 0.5	d ± 0.05	dV/dt ($\text{V}/\mu\text{s}$)	$\tan\delta \times (10^{-4})$		ESR @10kHz ($\text{m}\Omega$)	I_{max} (A)	Part number
								1kHz	10kHz			
5.0	32.0	20.0	11.0	27.5	-	0.8	65	10	100	8.5	5.0	C3D2H505+B00+++***
10.0	32.0	24.5	15.0	27.5	-	0.8	65	10	100	7.5	6.5	C3D2H106+B00+++***
22.0	32.0	37.0	22.0	27.5	-	0.8	65	10	100	5.0	10.0	C3D2H226+B00+++***
30.0	42.0	40.0	20.0	37.5	10.2	1.0	30	15	150	8.0	12.5	C3D2H306+F0B+++***
35.0	42.0	36.0	24.0	37.5	10.2	1.0	30	15	150	8.0	13.5	C3D2H356+F0B+++***
40.0	41.5	37.5	27.5	37.5	10.2	1.0	30	15	150	5.0	14.5	C3D2H406+F0B+++***
50.0	41.0	43.0	28.0	37.5	12.7	1.2	30	15	150	4.0	16.0	C3D2H506+F02+++***
50.0	42.0	45.0	30.0	37.5	20.3	1.2	30	15	150	4.0	16.0	C3D2H506+F0A+++***
60.0	42.0	45.0	30.0	37.5	20.3	1.2	30	15	150	3.0	16.5	C3D2H606+F0A+++***
75.0	57.0	43.5	29.5	52.5	12.7	1.2	15	35	350	5.5	16.0	C3D2H756+M02+++***
75.0	57.0	43.5	29.5	52.5	20.3	1.2	15	35	350	5.5	16.0	C3D2H756+M0A+++***
80.0	57.0	43.5	29.5	52.5	20.3	1.2	15	35	350	5.0	16.5	C3D2H806+M0A+++***
100.0	57.0	50.0	35.0	52.5	20.3	1.2	15	35	350	4.0	18.0	C3D2H107+M0A+++***
110.0	57.0	50.0	35.0	52.5	20.3	1.2	15	35	350	4.0	19.0	C3D2H117+M0A+++***

$U_{N,85^{\circ}\text{C}} : 600\text{Vdc}$												
C_N (μF)	W ± 1.0	H ± 1.0	T ± 1.0	P ± 0.5	b ± 0.5	d ± 0.05	dV/dt ($\text{V}/\mu\text{s}$)	$\tan\delta \times (10^{-4})$		ESR @10kHz ($\text{m}\Omega$)	I_{max} (A)	Part number
								1kHz	10kHz			
2.0	32.0	18.0	9.0	27.5	-	0.8	65	11	100	47.8	2.8	C3D1U205+B00+++***
3.0	32.0	20.0	11.0	27.5	-	0.8	65	11	100	31.8	4.1	C3D1U305+B00+++***
4.0	32.0	20.0	11.0	27.5	-	0.8	65	11	100	23.9	5.5	C3D1U405+B00+++***
5.0	32.0	22.0	13.0	27.5	-	0.8	65	11	100	19.1	6.9	C3D1U505+B00+++***
6.0	32.0	24.5	15.0	27.5	-	0.8	65	11	100	18.6	7.1	C3D1U605+B00+++***
7.0	32.0	24.5	15.0	27.5	-	0.8	65	11	100	15.9	8.3	C3D1U705+B00+++***
8.0	32.0	28.0	14.0	27.5	-	0.8	65	11	100	13.9	9.5	C3D1U805+B00+++***
9.0	32.0	30.0	16.0	27.5	-	0.8	65	11	100	12.4	10.7	C3D1U905+B00+++***
10.0	32.0	30.0	16.0	27.5	-	0.8	65	11	100	11.1	11.0	C3D1U106+B00+++***
12.0	32.0	33.0	18.0	27.5	-	0.8	65	11	100	10.8	12.0	C3D1U126+B00+++***
15.0	32.0	37.0	22.0	27.5	-	0.8	65	11	100	9.0	12.0	C3D1U156+B00+++***
15.0	32.0	37.0	22.0	27.5	10.2	0.8	65	11	100	7.4	16.5	C3D1U156+B0B+++***
18.0	32.0	37.0	22.0	27.5	-	0.8	65	11	100	8.0	12.0	C3D1U186+B00+++***
18.0	32.0	37.0	22.0	27.5	12.7	0.8	65	11	100	6.2	17.0	C3D1U186+B02+++***
10.0	41.0	30.0	16.0	37.5	-	1.0	30	20	175	19.5	6.2	C3D1U106+F00+++***
12.0	41.0	30.0	16.0	37.5	-	1.0	30	20	175	16.3	7.4	C3D1U126+F00+++***
15.0	41.0	33.5	18.5	37.5	-	1.0	30	20	175	13.0	9.2	C3D1U156+F00+++***
20.0	42.0	40.0	20.0	37.5	10.2	1.0	30	20	175	9.8	12.3	C3D1U206+F0B+++***
22.0	42.0	40.0	20.0	37.5	10.2	1.0	30	20	175	8.9	13.5	C3D1U226+F0B+++***
25.0	42.0	40.0	20.0	37.5	10.2	1.0	30	20	175	7.8	15.4	C3D1U256+F0B+++***
30.0	42.0	44.0	24.0	37.5	12.7	1.0	30	20	175	6.5	18.5	C3D1U306+F02+++***
35.0	42.0	45.0	30.0	37.5	12.7	1.2	30	20	175	6.0	20.1	C3D1U356+F02+++***
35.0	42.0	45.0	30.0	37.5	20.3	1.2	30	20	175	6.0	20.1	C3D1U356+F0A+++***
40.0	42.0	45.0	30.0	37.5	12.7	1.2	30	20	175	5.2	23.0	C3D1U406+F02+++***
40.0	42.0	45.0	30.0	37.5	20.3	1.2	30	20	175	5.2	23.0	C3D1U406+F0A+++***



■ Technical data (mm)

$U_{N,85^{\circ}\text{C}} : 600\text{Vdc}$												
C_N (μF)	W ± 1.0	H ± 1.0	T ± 1.0	P ± 0.5	b ± 0.5	d ± 0.05	dV/dt ($\text{V}/\mu\text{s}$)	$\tan\delta \times (10^{-4})$		ESR @10kHz (m Ω)	I_{max} (A)	Part number
								1kHz	10kHz			
45.0	42.0	50.0	35.0	37.5	12.7	1.2	30	20	175	4.6	25.8	C3D1U456+F02++++***
45.0	42.0	50.0	35.0	37.5	20.3	1.2	30	20	175	4.6	25.8	C3D1U456+F0A++++***
50.0	42.0	50.0	35.0	37.5	20.3	1.2	30	20	175	4.2	28.7	C3D1U506+F0A++++***
★50.0	42.0	46.0	35.0	37.5	20.3	1.2	30	20	175	4.2	28.7	C3D1U506+FAA++++***
55.0	42.0	50.0	35.0	37.5	20.3	1.2	30	20	175	3.8	31.6	C3D1U556+F0A++++***
60.0	42.0	55.0	40.0	37.5	20.3	1.2	30	20	175	3.5	34.5	C3D1U606+F0A++++***
65.0	42.0	55.0	40.0	37.5	20.3	1.2	30	20	175	3.2	35.0	C3D1U656+F0A++++***
70.0	42.0	55.0	40.0	37.5	20.3	1.2	30	20	175	3.0	35.0	C3D1U706+F0A++++***
75.0	42.0	60.0	45.0	37.5	20.3	1.2	30	20	175	2.8	35.0	C3D1U756+F0A++++***
80.0	42.0	60.0	45.0	37.5	20.3	1.2	30	20	175	2.6	35.0	C3D1U806+F0A++++***
85.0	42.0	60.0	45.0	37.5	20.3	1.2	30	20	175	2.5	35.0	C3D1U856+F0A++++***
40.0	57.0	45.0	25.0	52.5	12.7	1.2	15	36	350	9.8	12.3	C3D1U406+M02++++***
45.0	57.0	45.0	25.0	52.5	12.7	1.2	15	36	350	8.7	13.8	C3D1U456+M02++++***
50.0	57.0	45.0	25.0	52.5	12.7	1.2	15	36	350	7.8	15.4	C3D1U506+M02++++***
55.0	57.0	43.5	29.5	52.5	12.7	1.2	15	36	350	7.1	16.9	C3D1U556+M02++++***
55.0	57.0	43.5	29.5	52.5	20.3	1.2	15	36	350	7.1	16.9	C3D1U556+M0A++++***
60.0	57.0	43.5	29.5	52.5	12.7	1.2	15	36	350	6.5	18.5	C3D1U606+M02++++***
60.0	57.0	43.5	29.5	52.5	20.3	1.2	15	36	350	6.5	18.5	C3D1U606+M0A++++***
65.0	57.0	50.0	35.0	52.5	12.7	1.2	15	36	350	6.0	20.0	C3D1U656+M02++++***
65.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	6.0	20.0	C3D1U656+M0A++++***
70.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	5.6	21.5	C3D1U706+M0A++++***
75.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	5.2	23.1	C3D1U756+M0A++++***
80.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	4.9	24.6	C3D1U806+M0A++++***
85.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.8	25.1	C3D1U856+M0A++++***
90.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.6	25.8	C3D1U906+M0A++++***
95.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.4	27.3	C3D1U956+M0A++++***
100.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.2	28.7	C3D1U107+M0A++++***
110.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	3.8	31.6	C3D1U117+M0A++++***
120.0	57.0	65.0	45.0	52.5	20.3	1.2	15	36	350	3.5	34.5	C3D1U127+M0A++++***
130.0	57.0	65.0	45.0	52.5	20.3	1.2	15	36	350	3.2	35.0	C3D1U137+M0A++++***
140.0	57.0	65.0	45.0	52.5	20.3	1.2	15	36	350	3.0	35.0	C3D1U147+M0A++++***

$U_{N,85^{\circ}\text{C}} : 800\text{Vdc}$												
C_N (μF)	W ± 1.0	H ± 1.0	T ± 1.0	P ± 0.5	b ± 0.5	d ± 0.05	dV/dt ($\text{V}/\mu\text{s}$)	$\tan\delta \times (10^{-4})$		ESR @10kHz (m Ω)	I_{max} (A)	Part number
								1kHz	10kHz			
2.0	32.0	18.0	9.0	27.5	-	0.8	65	10	95	45.4	2.9	C3D2K205+B00++++***
3.0	32.0	20.0	11.0	27.5	-	0.8	65	10	95	30.3	4.4	C3D2K305+B00++++***
3.3	32.0	30.0	16.0	27.5	-	0.8	65	10	95	18.8	7.0	C3D2K335+B00++++***
4.0	32.0	25.0	13.0	27.5	-	0.8	65	10	95	22.7	5.8	C3D2K405+B00++++***
5.0	32.0	24.5	15.0	27.5	-	0.8	65	10	95	18.2	7.3	C3D2K505+B00++++***
6.0	32.0	30.0	16.0	27.5	-	0.8	65	10	95	15.1	8.7	C3D2K605+B00++++***
7.0	32.0	30.0	16.0	27.5	-	0.8	65	10	95	13.0	10.2	C3D2K705+B00++++***
8.0	32.0	33.0	18.0	27.5	-	0.8	65	10	95	12.5	10.5	C3D2K805+B00++++***
9.0	32.0	33.0	18.0	27.5	-	0.8	65	10	95	11.1	11.8	C3D2K905+B00++++***
10.0	32.0	37.0	22.0	27.5	-	0.8	65	10	95	11.0	12.0	C3D2K106+B00++++***



■ 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			
10.0	32.0	37.0	22.0	27.5	10.2	0.8	65	10	95	9.1	14.5	C3D2K106+B0B+++***
11.0	32.0	37.0	22.0	27.5	-	0.8	65	10	95	10.0	12.0	C3D2K116+B00+++***
11.0	32.0	37.0	22.0	27.5	10.2	0.8	65	10	95	8.3	16.0	C3D2K116+B0B+++***
12.0	32.0	37.0	22.0	27.5	-	0.8	65	10	95	9.3	12.0	C3D2K126+B00+++***
12.0	32.0	37.0	22.0	27.5	10.2	0.8	65	10	95	7.6	16.0	C3D2K126+B0B+++***
13.0	32.0	37.0	22.0	27.5	-	0.8	65	10	95	8.8	12.0	C3D2K136+B00+++***
13.0	32.0	37.0	22.0	27.5	12.7	0.8	65	10	95	8.1	16.2	C3D2K136+B02+++***
14.0	32.0	37.0	22.0	27.5	-	0.8	65	10	95	8.2	12.0	C3D2K146+B00+++***
14.0	32.0	37.0	22.0	27.5	12.7	0.8	65	10	95	7.6	16.5	C3D2K146+B02+++***
8.0	41.0	30.0	16.0	37.5	-	1.0	30	18	160	22.3	5.4	C3D2K805+F00+++***
9.0	41.0	30.0	16.0	37.5	-	1.0	30	18	160	19.8	6.1	C3D2K905+F00+++***
10.0	41.0	33.5	18.5	37.5	-	1.0	30	18	160	17.8	6.7	C3D2K106+F00+++***
12.0	41.0	33.5	18.5	37.5	-	1.0	30	18	160	14.9	8.1	C3D2K126+F00+++***
15.0	42.0	40.0	20.0	37.5	10.2	1.0	30	18	160	11.9	10.1	C3D2K156+F0B+++***
20.0	42.0	44.0	24.0	37.5	12.7	1.0	30	18	160	8.9	13.5	C3D2K206+F02+++***
25.0	42.0	44.0	24.0	37.5	12.7	1.0	30	18	160	7.1	16.8	C3D2K256+F02+++***
30.0	42.0	45.0	30.0	37.5	12.7	1.2	30	18	160	5.9	20.2	C3D2K306+F02+++***
30.0	42.0	45.0	30.0	37.5	20.3	1.2	30	18	160	5.9	20.2	C3D2K306+F0A+++***
35.0	42.0	50.0	35.0	37.5	20.3	1.2	30	18	160	5.5	22.0	C3D2K356+F0A+++***
40.0	42.0	50.0	35.0	37.5	20.3	1.2	30	18	160	4.8	25.1	C3D2K406+F0A+++***
45.0	42.0	55.0	40.0	37.5	20.3	1.2	30	18	160	4.2	28.3	C3D2K456+F0A+++***
50.0	42.0	55.0	40.0	37.5	20.3	1.2	30	18	160	3.8	31.4	C3D2K506+F0A+++***
55.0	42.0	60.0	45.0	37.5	20.3	1.2	30	18	160	3.5	34.5	C3D2K556+F0A+++***
★60.0	42.0	60.0	45.0	37.5	20.3	1.2	30	18	160	3.2	35.0	C3D2K606+F0A+++***
★65.0	42.0	60.0	45.0	37.5	20.3	1.2	30	18	160	2.9	35.0	C3D2K656+F0A+++***
25.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	14.3	8.4	C3D2K256+M02+++***
30.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	11.9	10.1	C3D2K306+M02+++***
★35.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	10.2	11.8	C3D2K356+M02+++***
40.0	57.0	43.5	29.5	52.5	12.7	1.2	15	33	320	8.9	13.5	C3D2K406+M02+++***
40.0	57.0	43.5	29.5	52.5	20.3	1.2	15	33	320	8.9	13.5	C3D2K406+M0A+++***
45.0	57.0	43.5	29.5	52.5	12.7	1.2	15	33	320	7.9	15.1	C3D2K456+M02+++***
45.0	57.0	43.5	29.5	52.5	20.3	1.2	15	33	320	7.9	15.1	C3D2K456+M0A+++***
50.0	57.0	50.0	35.0	52.5	12.7	1.2	15	33	320	7.1	16.8	C3D2K506+M02+++***
50.0	57.0	50.0	35.0	52.5	20.3	1.2	15	33	320	7.1	16.8	C3D2K506+M0A+++***
55.0	57.0	50.0	35.0	52.5	20.3	1.2	15	33	320	6.5	18.5	C3D2K556+M0A+++***
60.0	57.0	50.0	35.0	52.5	20.3	1.2	15	33	320	5.9	20.2	C3D2K606+M0A+++***
65.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	5.5	21.9	C3D2K656+M0A+++***
70.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	5.1	23.6	C3D2K706+M0A+++***
75.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.8	25.2	C3D2K756+M0A+++***
80.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.6	25.9	C3D2K806+M0A+++***
85.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.5	26.7	C3D2K856+M0A+++***
90.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.2	28.3	C3D2K906+M0A+++***
95.0	57.0	65.0	45.0	52.5	20.3	1.2	15	33	320	4.0	29.8	C3D2K956+M0A+++***
100.0	57.0	65.0	45.0	52.5	20.3	1.2	15	33	320	3.8	31.4	C3D2K107+M0A+++***
110.0	57.0	65.0	45.0	52.5	20.3	1.2	15	33	320	3.5	34.5	C3D2K117+M0A+++***



■ Technical data (mm)

U _{N,85℃} : 900Vdc												
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	18.0	9.0	27.5	-	0.8	70	9	90	86.0	1.5	C3D1X105+B00+++***
2.0	32.0	20.0	11.0	27.5	-	0.8	70	9	90	43.0	3.1	C3D1X205+B00+++***
3.0	32.0	22.0	13.0	27.5	-	0.8	70	9	90	28.7	4.6	C3D1X305+B00+++***
4.0	32.0	24.5	15.0	27.5	-	0.8	70	9	90	21.5	6.1	C3D1X405+B00+++***
5.0	32.0	30.0	16.0	27.5	-	0.8	70	9	90	17.2	7.7	C3D1X505+B00+++***
6.0	32.0	33.0	18.0	27.5	-	0.8	70	9	90	18.0	6.9	C3D1X605+B00+++***
7.0	32.0	33.0	18.0	27.5	-	0.8	70	9	90	13.0	10.2	C3D1X705+B00+++***
8.0	32.0	37.0	22.0	27.5	-	0.8	70	9	90	11.5	11.4	C3D1X805+B00+++***
8.0	32.0	37.0	22.0	27.5	10.2	0.8	70	9	90	10.7	12.3	C3D1X805+B0B+++***
9.0	32.0	37.0	22.0	27.5	-	0.8	70	9	90	10.4	12.0	C3D1X905+B00+++***
9.0	32.0	37.0	22.0	27.5	12.7	0.8	70	9	90	9.6	13.8	C3D1X905+B02+++***
10.0	32.0	37.0	22.0	27.5	-	0.8	70	9	90	12.0	12.2	C3D1X106+B00+++***
10.0	32.0	37.0	22.0	27.5	12.7	0.8	70	9	90	8.6	15.4	C3D1X106+B02+++***
4.7	41.0	26.0	15.0	37.5	-	1.0	35	17	150	35.6	3.4	C3D1X475+F00+++***
5.0	41.0	30.0	16.0	37.5	-	1.0	35	17	150	33.4	3.6	C3D1X505+F00+++***
6.0	41.0	30.0	16.0	37.5	-	1.0	35	17	150	27.9	4.3	C3D1X605+F00+++***
7.0	41.0	30.0	16.0	37.5	-	1.0	35	17	150	23.9	5.0	C3D1X705+F00+++***
8.0	41.0	33.0	18.0	37.5	-	1.0	35	17	150	20.9	5.7	C3D1X805+F00+++***
10.0	42.0	40.0	20.0	37.5	10.2	1.0	35	17	150	16.7	7.2	C3D1X106+F0B+++***
12.0	41.0	37.0	22.0	37.5	10.2	1.0	35	17	150	13.9	8.6	C3D1X126+F0B+++***
15.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	11.1	10.8	C3D1X156+F02+++***
18.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	9.3	12.9	C3D1X186+F02+++***
20.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	8.4	14.4	C3D1X206+F02+++***
25.0	42.0	45.0	30.0	37.5	12.7	1.2	35	17	150	6.7	17.9	C3D1X256+F02+++***
25.0	42.0	45.0	30.0	37.5	20.3	1.2	35	17	150	6.7	17.9	C3D1X256+F0A+++***
30.0	42.0	50.0	35.0	37.5	20.3	1.2	35	17	150	5.6	21.5	C3D1X306+F0A+++***
35.0	42.0	55.0	40.0	37.5	20.3	1.2	35	17	150	5.1	23.4	C3D1X356+F0A+++***
40.0	42.0	55.0	40.0	37.5	20.3	1.2	35	17	150	4.5	26.8	C3D1X406+F0A+++***
45.0	42.0	60.0	45.0	37.5	20.3	1.2	35	17	150	4.0	30.1	C3D1X456+F0A+++***
50.0	42.0	60.0	45.0	37.5	20.3	1.2	35	17	150	3.6	33.5	C3D1X506+F0A+++***
15.0	57.0	45.0	25.0	52.5	10.2	1.2	15	31	300	22.3	5.4	C3D1X156+M0B+++***
20.0	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	16.7	7.2	C3D1X206+M02+++***
25.0	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	13.4	9.0	C3D1X256+M02+++***
30.0	57.0	43.5	29.5	52.5	12.7	1.2	15	31	300	11.1	10.8	C3D1X306+M02+++***
30.0	57.0	43.5	29.5	52.5	20.3	1.2	15	31	300	11.1	10.8	C3D1X306+M0A+++***
35.0	57.0	43.5	29.5	52.5	12.7	1.2	15	31	300	9.6	12.6	C3D1X356+M02+++***
35.0	57.0	43.5	29.5	52.5	20.3	1.2	15	31	300	9.6	12.6	C3D1X356+M0A+++***
40.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	8.4	14.4	C3D1X406+M0A+++***
45.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	7.4	16.1	C3D1X456+M0A+++***
50.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	6.7	17.9	C3D1X506+M0A+++***
55.0	57.0	55.0	45.0	52.5	20.3	1.2	15	31	300	6.1	19.7	C3D1X556+M0A+++***
60.0	57.0	55.0	45.0	52.5	20.3	1.2	15	31	300	5.6	21.5	C3D1X606+M0A+++***
65.0	57.0	55.0	45.0	52.5	20.3	1.2	15	31	300	5.1	23.3	C3D1X656+M0A+++***
70.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.8	25.1	C3D1X706+M0A+++***
75.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.7	25.7	C3D1X756+M0A+++***
80.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.5	26.8	C3D1X806+M0A+++***
85.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.2	28.5	C3D1X856+M0A+++***



■ Technical data (mm)

U _{N,85℃} : 1 000Vdc												
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	18.0	9.0	27.5	-	0.8	75	8	80	76.4	1.7	C3D3A105+B00+++***
2.0	32.0	22.0	13.0	27.5	-	0.8	75	8	80	38.2	3.5	C3D3A205+B00+++***
3.0	32.0	24.5	15.0	27.5	-	0.8	75	8	80	25.5	5.2	C3D3A305+B00+++***
4.0	32.0	30.0	16.0	27.5	-	0.8	75	8	80	19.1	6.9	C3D3A405+B00+++***
5.0	32.0	33.0	18.0	27.5	-	0.8	75	8	80	15.3	8.6	C3D3A505+B00+++***
6.0	32.0	33.0	18.0	27.5	-	0.8	75	8	80	14.9	8.9	C3D3A605+B00+++***
7.0	32.0	37.0	22.0	27.5	-	0.8	75	8	80	14.5	9.4	C3D3A705+B00+++***
7.0	32.0	37.0	22.0	27.5	12.7	0.8	75	8	80	11.4	11.6	C3D3A705+B02+++***
8.0	32.0	37.0	22.0	27.5	-	0.8	75	8	80	13.0	10.8	C3D3A805+B00+++***
8.0	32.0	37.0	22.0	27.5	12.7	0.8	75	8	80	10.0	13.3	C3D3A805+B02+++***
5.0	41.0	30.0	16.0	37.5	-	1.0	37	15	140	31.2	3.8	C3D3A505+F00+++***
6.0	41.0	30.0	16.0	37.5	-	1.0	37	15	140	26.0	4.6	C3D3A605+F00+++***
7.0	41.0	33.0	18.0	37.5	-	1.0	37	15	140	22.3	5.4	C3D3A705+F00+++***
8.0	41.0	33.0	18.0	37.5	-	1.0	37	15	140	19.5	6.2	C3D3A805+F00+++***
10.0	42.0	40.0	20.0	37.5	-	1.0	37	15	140	15.6	6.7	C3D3A106+F00+++***
10.0	42.0	40.0	20.0	37.5	10.2	1.0	37	15	140	15.6	7.7	C3D3A106+F0B+++***
12.0	41.0	37.0	22.0	37.5	12.7	1.0	37	15	140	13.0	9.2	C3D3A126+F02+++***
12.0	41.0	37.0	22.0	37.5	-	1.0	37	15	140	15.0	8.0	C3D3A126+F00+++***
15.0	42.0	44.0	24.0	37.5	12.7	1.0	37	15	140	10.4	11.5	C3D3A156+F02+++***
18.0	42.0	45.0	30.0	37.5	12.7	1.2	37	15	140	8.7	13.8	C3D3A186+F02+++***
18.0	42.0	45.0	30.0	37.5	20.3	1.2	37	15	140	8.7	13.8	C3D3A186+F0A+++***
20.0	42.0	45.0	30.0	37.5	12.7	1.2	37	15	140	7.8	15.4	C3D3A206+F02+++***
20.0	42.0	45.0	30.0	37.5	20.3	1.2	37	15	140	7.8	15.4	C3D3A206+F0A+++***
25.0	42.0	50.0	35.0	37.5	20.3	1.2	37	15	140	6.2	19.2	C3D3A256+F0A+++***
30.0	42.0	55.0	40.0	37.5	20.3	1.2	37	15	140	5.2	23.1	C3D3A306+F0A+++***
35.0	42.0	55.0	40.0	37.5	20.3	1.2	37	15	140	4.8	25.1	C3D3A356+F0A+++***
40.0	42.0	60.0	45.0	37.5	20.3	1.2	37	15	140	4.2	28.7	C3D3A406+F0A+++***
15.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	20.8	5.8	C3D3A156+M02+++***
20.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	15.6	7.7	C3D3A206+M02+++***
25.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	12.5	9.6	C3D3A256+M02+++***
30.0	57.0	43.5	29.5	52.5	12.7	1.2	17	28	280	10.4	11.5	C3D3A306KM02+++***
30.0	57.0	43.5	29.5	52.5	20.3	1.2	17	28	280	10.4	11.5	C3D3A306KM0A+++***
30.0	57.0	45.0	30.0	52.5	12.7	1.2	17	28	280	10.4	11.5	C3D3A306JM02+++***
30.0	57.0	45.0	30.0	52.5	20.3	1.2	17	28	280	10.4	11.5	C3D3A306JM0A+++***
35.0	57.0	50.0	35.0	52.5	20.3	1.2	17	28	280	8.9	13.5	C3D3A356+M0A+++***
40.0	57.0	50.0	35.0	52.5	20.3	1.2	17	28	280	7.8	15.4	C3D3A406+M0A+++***
45.0	57.0	55.0	45.0	52.5	20.3	1.2	17	28	280	6.9	17.3	C3D3A456+M0A+++***
50.0	57.0	55.0	45.0	52.5	20.3	1.2	17	28	280	6.2	19.2	C3D3A506+M0A+++***
55.0	57.0	55.0	45.0	52.5	20.3	1.2	17	28	280	5.7	21.1	C3D3A556+M0A+++***
60.0	57.0	65.0	45.0	52.5	20.3	1.2	17	28	280	5.2	23.1	C3D3A606+M0A+++***
65.0	57.0	65.0	45.0	52.5	20.3	1.2	17	28	280	4.8	25.0	C3D3A656+M0A+++***
70.0	57.0	65.0	45.0	52.5	20.3	1.2	17	28	280	4.5	26.9	C3D3A706+M0A+++***



C3D

■ Technical data (mm)

U _{N,85℃} : 1 100Vdc												
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			
0.68	32.0	20.0	11.0	27.5	-	0.8	80	8	70	80.0	1.7	C3D1M684+B00+++***
1.0	32.0	20.0	11.0	27.5	-	0.8	80	8	70	59.4	2.2	C3D1M105+B00+++***
1.5	32.0	22.0	13.0	27.5	-	0.8	80	8	70	55.7	2.4	C3D1M155+B00+++***
2.0	32.0	25.0	13.0	27.5	-	0.8	80	8	70	27.9	4.7	C3D1M205JB00+++***
★2.0	32.0	25.0	13.0	27.5	-	0.8	80	8	70	27.9	4.7	C3D1M205KB00+++***
3.0	32.0	30.0	16.0	27.5	-	0.8	80	8	70	20.4	6.5	C3D1M305+B00+++***
4.0	32.0	33.0	18.0	27.5	-	0.8	80	8	70	15.3	8.6	C3D1M405+B00+++***
5.0	32.0	37.0	22.0	27.5	-	0.8	80	8	70	14.0	9.8	C3D1M505+B00+++***
5.0	32.0	37.0	22.0	27.5	10.2	0.8	80	8	70	12.3	10.8	C3D1M505+B0B+++***
6.0	32.0	37.0	22.0	27.5	-	0.8	80	8	70	12.3	10.8	C3D1M605+B00+++***
6.0	32.0	37.0	22.0	27.5	10.2	0.8	80	8	70	10.2	12.9	C3D1M605+B0B+++***
3.0	41.0	30.0	16.0	37.5	-	1.0	40	15	130	48.3	2.5	C3D1M305+F00+++***
4.0	41.0	30.0	16.0	37.5	-	1.0	40	15	130	36.2	3.3	C3D1M405+F00+++***
4.7	41.0	33.5	18.5	37.5	-	1.0	40	15	130	30.8	3.9	C3D1M475+F00+++***
5.0	41.0	33.5	18.5	37.5	-	1.0	40	15	130	29.0	4.1	C3D1M505+F00+++***
6.0	41.0	33.5	18.5	37.5	-	1.0	40	15	130	24.2	5.0	C3D1M605+F00+++***
7.0	42.0	40.0	20.0	37.5	10.2	1.0	40	15	130	20.7	5.8	C3D1M705+F0B+++***
8.0	41.0	37.0	22.0	37.5	10.2	1.0	40	15	130	18.1	6.6	C3D1M805+F0B+++***
9.0	41.0	37.0	22.0	37.5	12.7	1.0	40	15	130	16.1	7.5	C3D1M905+F02+++***
10.0	42.0	44.0	24.0	37.5	12.7	1.0	40	15	130	14.5	8.3	C3D1M106+F02+++***
12.0	42.0	44.0	24.0	37.5	12.7	1.0	40	15	130	12.1	9.9	C3D1M126+F02+++***
12.0	42.0	44.0	24.0	37.5	-	1.0	40	15	130	14.0	8.6	C3D1M126+F00+++***
15.0	42.0	45.0	30.0	37.5	12.7	1.2	40	15	130	9.7	12.4	C3D1M156+F02+++***
15.0	42.0	45.0	30.0	37.5	20.3	1.2	40	15	130	9.7	12.4	C3D1M156+F0A+++***
18.0	42.0	50.0	35.0	37.5	20.3	1.2	40	15	130	8.1	14.9	C3D1M186+F0A+++***
20.0	42.0	50.0	35.0	37.5	20.3	1.2	40	15	130	7.2	16.6	C3D1M206+F0A+++***
25.0	42.0	55.0	40.0	37.5	20.3	1.2	40	15	130	5.8	20.7	C3D1M256+F0A+++***
30.0	42.0	60.0	45.0	37.5	20.3	1.2	40	15	130	4.8	24.8	C3D1M306+F0A+++***
★15.0	57.0	45.0	25.0	52.5	12.7	1.2	20	27	260	19.3	6.2	C3D1M156+M02+++***
20.0	57.0	43.5	29.5	52.5	12.7	1.2	20	27	260	14.5	8.3	C3D1M206+M02+++***
20.0	57.0	43.5	29.5	52.5	20.3	1.2	20	27	260	14.5	8.3	C3D1M206+M0A+++***
25.0	57.0	50.0	35.0	52.5	20.3	1.2	20	27	260	11.6	10.4	C3D1M256+M0A+++***
30.0	57.0	50.0	35.0	52.5	20.3	1.2	20	27	260	9.7	12.4	C3D1M306+M0A+++***
35.0	57.0	55.0	45.0	52.5	20.3	1.2	20	27	260	8.4	14.3	C3D1M356+M0A+++***
40.0	57.0	55.0	45.0	52.5	20.3	1.2	20	27	260	7.8	15.5	C3D1M406+M0A+++***
45.0	57.0	55.0	45.0	52.5	20.3	1.2	20	27	260	6.9	17.4	C3D1M456+M0A+++***
50.0	57.0	65.0	45.0	52.5	20.3	1.2	20	27	260	6.2	19.3	C3D1M506+M0A+++***
55.0	57.0	65.0	45.0	52.5	20.3	1.2	20	27	260	5.6	21.3	C3D1M556+M0A+++***



■ Technical data (mm)

U _{N,85℃} : 1 200Vdc												
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	90	7	55	39.5	3.5	C3D3L105+B00+++***
2.0	32.0	24.5	15.0	27.5	-	0.8	90	7	55	26.3	5.0	C3D3L205+B00+++***
3.0	32.0	30.0	16.0	27.5	-	0.8	90	7	55	17.5	7.5	C3D3L305+B00+++***
4.0	32.0	33.0	18.0	27.5	-	0.8	90	7	55	13.9	9.5	C3D3L405+B00+++***
5.0	32.0	37.0	22.0	27.5	-	0.8	90	7	55	12.7	10.4	C3D3L505+B00+++***
5.0	32.0	37.0	22.0	27.5	10.2	0.8	90	7	55	11.1	11.8	C3D3L505+B0B+++***
3.0	41.0	30.0	16.0	37.5	-	1.0	45	13	100	37.2	3.2	C3D3L305+F00+++***
4.0	41.0	30.0	16.0	37.5	-	1.0	45	13	100	27.9	4.3	C3D3L405+F00+++***
5.0	41.0	33.5	18.5	37.5	-	1.0	45	13	100	22.3	5.4	C3D3L505+F00+++***
6.0	42.0	40.0	20.0	37.5	-	1.0	45	13	100	18.6	6.5	C3D3L605+F00+++***
7.0	41.0	37.0	22.0	37.5	10.2	1.0	45	13	100	15.9	7.5	C3D3L705+F0B+++***
8.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	13.9	8.6	C3D3L805+F02+++***
9.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	12.4	9.7	C3D3L905+F02+++***
10.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	11.1	10.8	C3D3L106+F02+++***
12.0	42.0	45.0	30.0	37.5	12.7	1.2	45	13	100	9.3	12.9	C3D3L126+F02+++***
12.0	42.0	45.0	30.0	37.5	20.3	1.2	45	13	100	9.3	12.9	C3D3L126+F0A+++***
15.0	42.0	50.0	35.0	37.5	20.3	1.2	45	13	100	7.4	16.1	C3D3L156+F0A+++***
18.0	42.0	50.0	35.0	37.5	20.3	1.2	45	13	100	6.6	18.1	C3D3L186+F0A+++***
20.0	42.0	55.0	40.0	37.5	20.3	1.2	45	13	100	6.0	20.1	C3D3L206+F0A+++***
25.0	42.0	60.0	45.0	37.5	20.3	1.2	45	13	100	4.8	25.1	C3D3L256+F0A+++***
12.0	57.0	45.0	25.0	52.5	12.7	1.2	23	24	200	19.9	6.0	C3D3L126+M02+++***
15.0	57.0	45.0	25.0	52.5	12.7	1.2	23	24	200	15.9	7.5	C3D3L156+M02+++***
20.0	57.0	43.5	29.5	52.5	12.7	1.2	23	24	200	11.9	10.0	C3D3L206KM02+++***
20.0	57.0	43.5	29.5	52.5	20.3	1.2	23	24	200	11.9	10.0	C3D3L206KM0A+++***
20.0	57.0	45.0	30.0	52.5	12.7	1.2	23	24	200	11.9	10.0	C3D3L206JM02+++***
20.0	57.0	45.0	30.0	52.5	20.3	1.2	23	24	200	11.9	10.0	C3D3L206JM0A+++***
25.0	57.0	50.0	35.0	52.5	20.3	1.2	23	24	200	9.6	12.6	C3D3L256+M0A+++***
30.0	57.0	55.0	45.0	52.5	20.3	1.2	23	24	200	8.0	15.1	C3D3L306+M0A+++***
35.0	57.0	55.0	45.0	52.5	20.3	1.2	23	24	200	6.8	17.6	C3D3L356+M0A+++***
40.0	57.0	65.0	45.0	52.5	20.3	1.2	23	24	200	6.0	20.1	C3D3L406+M0A+++***
45.0	57.0	65.0	45.0	52.5	20.3	1.2	23	24	200	5.3	22.6	C3D3L456+M0A+++***

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

2. “+++”= lead form and packaging code

3. “***”= Internal use

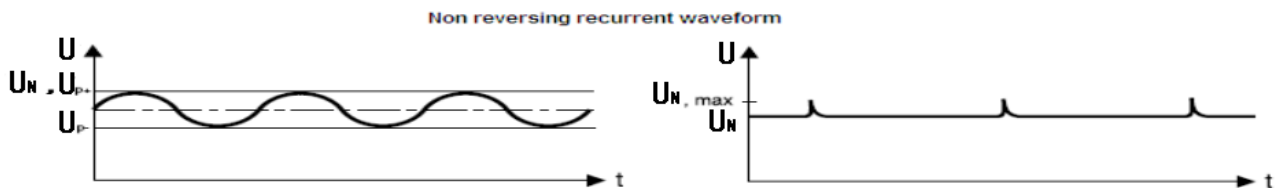
4. When the b=10.0mm, the digit 12 is “1”; When the b=20.0mm, the digit 12 is “2”; When the b=15.0mm, the digit 12 is “4”;

5. “I_{max}”=Maximum r.m.s current at 10kHz, Θ_{amb}=70℃, ΔΘ_{case}=15.0℃.

6. “★”= Arc-bottom of the outer shell.

■ Typical waveforms

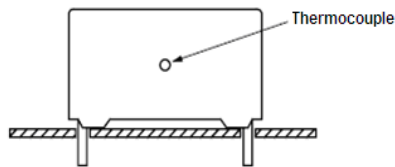
These capacitors are only suitable for DC applications. It means the voltage applied to the capacitors must be unidirectional ripple voltage.



Note:

- The peak voltage (U_{P+}) shall not be greater than the rated DC voltage (U_N).
- The peak-to-peak ripple voltage (U_{P-P}) shall not be greater than $0.3 \times (U_N)$.
- The maximum component surface temperature rise must be lower than 15°C .

■ Measuring the component temperature



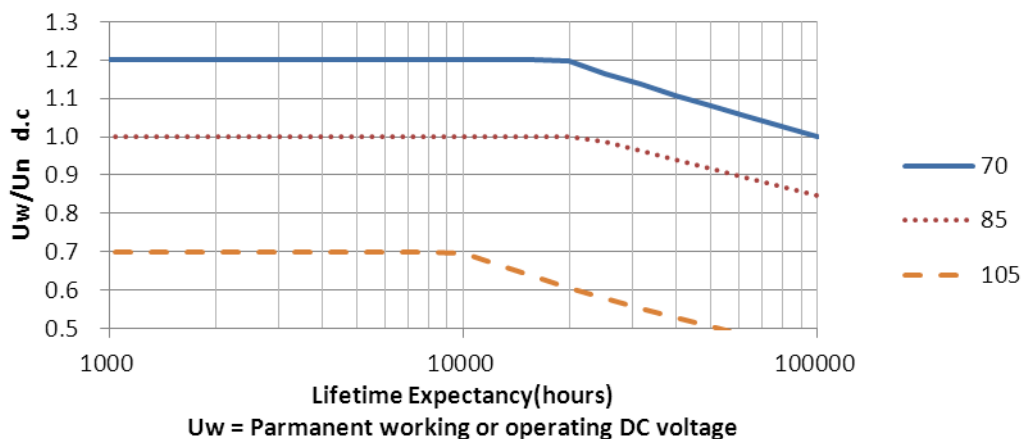
Note:

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

■ Over voltages according to IEC 61071:

- 1.1 U_N 30% of on-load-dur.
- 1.15 U_N 30min/day
- 1.2 U_N 5min/day
- 1.3 U_N 1min/day
- 1.5 U_N 100ms every time, 1000 times during the whole life of the capacitor

■ Lifetime expectancy (typical curve)



■ Test Method And Performance

No.	Item	Performance	Testing Method IEC 61071
1	5.14.2 External inspection	Legible marking and finish as specified Dimensions: see specific drawing	Check for finish, marking and overall dimensions
	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.14.1.1 Robustness of terminations	There shall be no visible damage	Tensile U_{a1} Wire diameter load $d \leq 0.8\text{mm}$ 10N $0.8\text{ mm} < d \leq 1.2\text{mm}$ 20N Bending U_{b1} Wire diameter load $d \leq 0.8\text{ mm}$ 5N $0.8\text{ mm} < d \leq 1.2\text{ mm}$ 10N $4 \times 90^\circ$, duration 2s to 3s
	5.14.1.6 Resistance to soldering heat	There shall be no visible damage.	Solder temperature: $260^\circ\text{C} \pm 5^\circ\text{C}$ Immersion time: $10\text{s} \pm 1\text{s}$
	Final measurements	$ \Delta C/C \leq 0.5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.005	
2	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.14.3.1 Vibration	There shall be no evidence damage	$f=10\text{ Hz to }55\text{Hz}$ $a=\pm 0.35\text{mm}$ Test duration per axis = 10 frequency cycles (3 axes offset from each other by 90°C), 1 octave/min, the total times are 135min for 3 axes.
	5.14.3.1 Impacts	There shall be no evidence damage	1 000times, Acceleration: 390m/s^2 Pulse duration: 6ms
	Final measurements	$ \Delta C/C \leq 0.5\%$ (relative to the initial value) Increase of $\text{tg}\delta$: ≤ 0.005	
3	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.9 Surge discharge test		Test voltage: $1.1U_{\text{NDC}}$ Number of discharges: 5 Time lapse every 2 min (10min total) Within 5 min after the surge discharge test, the capacitor shall be subjected to a voltage test between terminals: $1.5U_{\text{NDC}}$, 60s
	Final measurements	$ \Delta C/C \leq 1.0\%$ (relative to the initial value) $\text{tg}\delta$: $\leq 1.2 \times \text{tg}\delta_0$ (the initial $\text{tg}\delta$) + 0.0001	

No.	Item	Performance	Testing Method IEC 61071
4	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.11 Self-healing		Voltage: $1.5U_{\text{NDC}}$ 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 $2.5U_{\text{NDC}}$ If fewer than five clearings have occurred when the voltage has reached $2.5U_{\text{NDC}}$, for a time of 10s, the test shall be finished.
		$ \Delta C/C \leq 0.5\%$ (relative to the initial value) $\text{tg}\delta: \leq 1.1 \times \text{tg}\delta_0 (\text{the initial } \text{tg}\delta) + 0.0001$	
5	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.13.1 Change of temperature	There shall be no evidence of deterioration	Test: Na $\theta_A = -40^\circ\text{C}, \theta_B = +85^\circ\text{C}$ 5 cycles, Duration: $t = 30\text{min}$
	Final measurements	$ \Delta C/C \leq 2.0\%$ (relative to the initial value) Increase of $\text{tg}\delta: \leq 0.015$	
6	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.13.2 Damp heat, steady state	There shall be no evidence of deterioration.	Temperature: $40^\circ\text{C} \pm 2^\circ\text{C}$ Humidity: $93 \pm 3\% \text{RH}$ Duration: 56 days
	5.5.1 Voltage test between terminals	There shall be no permanent puncturing or flashover.	$1.5U_{\text{NDC}}, 60\text{s}$
	5.6.1 Voltage test between terminals and case	There shall be no permanent puncturing or flashover.	$2\ 000\text{VAC}, 10\text{s}$
	Final measurements	$ \Delta C/C \leq 2.0\%$ (relative to the initial value) Increase of $\text{tg}\delta: \leq 0.015$	
7	Initial measurements	Capacitance at 1kHz $\text{tg}\delta$ at 10kHz	
	5.10.1 Thermal stability test	Throughout the last 6h, the temperature of the case near of the top rise shall not increase by more than 1°C	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 \leq 2.0\%$ (relative to the initial value) $\text{tg}\delta: \leq 1.2 \times \text{tg}\delta_0 (\text{the initial } \text{tg}\delta) + 0.015$	

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

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