SPECIFICATION FOR APPROVAL

File No.: Q/FRK 0.GS.E.D3C-C01

Product Name	DC-Link Capacitor for PCB (Automotive) 125℃
Product Type:	D3C
Product Code	
Customer	
Customer Code	
Issue Date	2024-05

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

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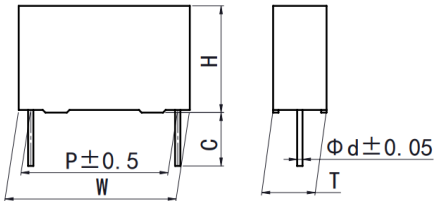
Version history

Current version	Date	Author	Change description

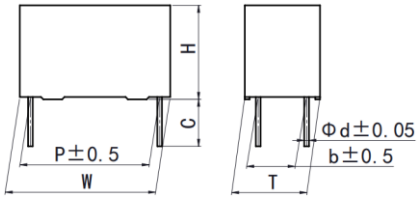
DC-Link Capacitor for PCB（125℃）

■ Outline Drawing

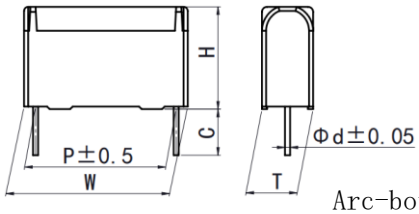
2 Pins

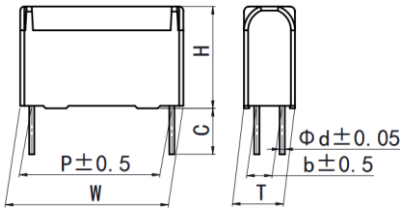


4 Pins



Square-bottom





Arc-bottom

■ Features

- AEC-Q200 qualified
- Metallized polypropylene structure.
- Excellent electric property.
- Plastic case (UL94 V-0), Filled with resin.
- On-board charger 125℃ application.

■ Specifications

Reference Standard	GB/T 17702 (IEC 61071) 、AEC-Q200						
Climatic Category	40/125/56						
Operating temperature (case)	-40℃~125℃ (+85℃ to +125℃: decreasing factor 0.7% per ℃ for $U_{N,\ 85℃}$)						
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						
Rated voltage U_N & Operating voltage U_{OP}	U_N@85℃						
	500Vdc	600Vdc	800Vdc	900Vdc	1000Vdc	1100Vdc	1200Vdc
	U_{OP}@105℃						
	430Vdc	520Vdc	690Vdc	775Vdc	860Vdc	950Vdc	1030Vdc
	U_{OP}@125℃						
	360Vdc	430Vdc	580Vdc	650Vdc	720Vdc	790Vdc	860Vdc

■ 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
D	3	D												

Digit 1 to 3　Series code　D3C= C3C (Automotive grade parts)
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　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 (bulk)	38	lead length 3.8mm	0	Length tolerance ±1.0mm
2	4 pins (bulk) b=12.7mm	C0	Standard lead length 5.5mm	2	Length tolerance ±0.5mm
A	4 pins(bulk) b=20.3mm				
B	4 pins(bulk) 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			
5.0	32.0	20.0	11.0	27.5	–	0.8	65	10	100	21.9	5.0	D3C2H505+B00***
10.0	32.0	24.5	15.0	27.5	–	0.8	65	10	100	11.5	6.5	D3C2H106+B00***
22.0	32.0	37.0	22.0	27.5	–	0.8	65	10	100	5.9	10.0	D3C2H226+B00***
30.0	42.0	40.0	20.0	37.5	10.2	1.0	30	15	150	8.0	12.5	D3C2H306+F0B***
35.0	42.0	36.0	24.0	37.5	10.2	1.0	30	15	150	8.0	13.5	D3C2H356+F0B***
40.0	41.5	37.5	27.5	37.5	10.2	1.0	30	15	150	5.0	14.5	D3C2H406+F0B***
50.0	41.0	43.0	28.0	37.5	12.7	1.2	30	15	150	4.0	16.0	D3C2H506+F02***
50.0	42.0	45.0	30.0	37.5	20.3	1.2	30	15	150	4.0	16.0	D3C2H506+F0A***
60.0	42.0	45.0	30.0	37.5	20.3	1.2	30	15	150	3.8	16.5	D3C2H606+F0A***
75.0	57.0	43.5	29.5	52.5	12.7	1.2	15	35	350	5.5	16.0	D3C2H756+M02***
75.0	57.0	43.5	29.5	52.5	20.3	1.2	15	35	350	5.5	16.0	D3C2H756+M0A***
80.0	57.0	43.5	29.5	52.5	20.3	1.2	15	35	350	5.0	16.5	D3C2H806+M0A***
100.0	57.0	50.0	35.0	52.5	20.3	1.2	15	35	350	4.0	18.0	D3C2H107+M0A***
110.0	57.0	50.0	35.0	52.5	20.3	1.2	15	35	350	4.0	19.0	D3C2H117+M0A***

$U_{N,85°C}$: 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			
2.0	32.0	18.0	9.0	27.5	–	0.8	65	11	100	47.8	2.8	D3C1U205+B00***
3.0	32.0	20.0	11.0	27.5	–	0.8	65	11	100	31.8	4.1	D3C1U305+B00***
4.0	32.0	20.0	11.0	27.5	–	0.8	65	11	100	23.9	5.5	D3C1U405+B00***
5.0	32.0	22.0	13.0	27.5	–	0.8	65	11	100	19.1	6.9	D3C1U505+B00***
6.0	32.0	24.5	15.0	27.5	–	0.8	65	11	100	18.6	7.1	D3C1U605+B00***
7.0	32.0	24.5	15.0	27.5	–	0.8	65	11	100	15.9	8.3	D3C1U705+B00***
8.0	32.0	28.0	14.0	27.5	–	0.8	65	11	100	13.9	9.5	D3C1U805+B00***
9.0	32.0	30.0	16.0	27.5	–	0.8	65	11	100	12.4	10.7	D3C1U905+B00***
10.0	32.0	30.0	16.0	27.5	–	0.8	65	11	100	11.1	11.0	D3C1U106+B00***
12.0	32.0	33.0	18.0	27.5	–	0.8	65	11	100	10.8	12.0	D3C1U126+B00***
★ 12.0	32.0	33.0	18.0	27.5	–	0.8	65	11	100	10.8	12.0	D3C1U126+B00***
15.0	32.0	37.0	22.0	27.5	–	0.8	65	11	100	9.0	12.0	D3C1U156+B00***
15.0	32.0	37.0	22.0	27.5	10.2	0.8	65	11	100	7.4	16.5	D3C1U156+B0B***
18.0	32.0	37.0	22.0	27.5	–	0.8	65	11	100	8.0	12.0	D3C1U186+B00***
18.0	32.0	37.0	22.0	27.5	12.7	0.8	65	11	100	6.2	17.0	D3C1U186+B02***
10.0	41.0	30.0	16.0	37.5	–	1.0	30	20	175	19.5	6.2	D3C1U106+F00***
12.0	41.0	30.0	16.0	37.5	–	1.0	30	20	175	16.3	7.4	D3C1U126+F00***
★ 15.0	41.0	33.5	18.5	37.5	–	1.0	30	20	175	13.0	9.2	D3C1U156+F00***
20.0	42.0	40.0	20.0	37.5	10.2	1.0	30	20	175	9.8	12.3	D3C1U206+F0B***
22.0	42.0	40.0	20.0	37.5	10.2	1.0	30	20	175	8.9	13.5	D3C1U226+F0B***
25.0	42.0	40.0	20.0	37.5	10.2	1.0	30	20	175	7.8	15.4	D3C1U256+F0B***
30.0	42.0	44.0	24.0	37.5	12.7	1.0	30	20	175	6.5	18.5	D3C1U306+F02***
★ 35.0	42.0	45.0	30.0	37.5	12.7	1.2	30	20	175	6.0	20.1	D3C1U356+F02***
35.0	42.0	45.0	30.0	37.5	20.3	1.2	30	20	175	6.0	20.1	D3C1U356+F0A***
40.0	42.0	45.0	30.0	37.5	12.7	1.2	30	20	175	5.2	23.0	D3C1U406+F02***
40.0	42.0	45.0	30.0	37.5	20.3	1.2	30	20	175	5.2	23.0	D3C1U406+F0A***

■ 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			
★ 45.0	42.0	50.0	35.0	37.5	12.7	1.2	30	20	175	4.6	25.8	D3C1U456+F02***
★ 45.0	42.0	50.0	35.0	37.5	20.3	1.2	30	20	175	4.6	25.8	D3C1U456+F0A***
★ 50.0	42.0	46.0	35.0	37.5	20.3	1.2	30	20	175	4.2	28.7	D3C1U506+F0A***
55.0	42.0	50.0	35.0	37.5	20.3	1.2	30	20	175	3.8	31.6	D3C1U556+F0A***
60.0	42.0	55.0	40.0	37.5	20.3	1.2	30	20	175	3.5	34.5	D3C1U606+F0A***
★ 65.0	42.0	55.0	40.0	37.5	20.3	1.2	30	20	175	3.2	35.0	D3C1U656+F0A***
70.0	42.0	55.0	40.0	37.5	20.3	1.2	30	20	175	3.0	35.0	D3C1U706+F0A***
★ 75.0	42.0	60.0	45.0	37.5	20.3	1.2	30	20	175	2.8	35.0	D3C1U756+F0A***
★ 80.0	42.0	60.0	45.0	37.5	20.3	1.2	30	20	175	2.6	35.0	D3C1U806+F0A***
★ 85.0	42.0	60.0	45.0	37.5	20.3	1.2	30	20	175	2.5	35.0	D3C1U856+F0A***
★ 40.0	57.0	45.0	25.0	52.5	12.7	1.2	15	36	350	9.8	12.3	D3C1U406+M02***
★ 45.0	57.0	45.0	25.0	52.5	12.7	1.2	15	36	350	8.7	13.8	D3C1U456+M02***
★ 50.0	57.0	45.0	25.0	52.5	12.7	1.2	15	36	350	7.8	15.4	D3C1U506+M02***
★ 55.0	57.0	43.5	29.5	52.5	12.7	1.2	15	36	350	7.1	16.9	D3C1U556+M02***
★ 55.0	57.0	43.5	29.5	52.5	20.3	1.2	15	36	350	7.1	16.9	D3C1U556+M0A***
60.0	57.0	43.5	29.5	52.5	12.7	1.2	15	36	350	6.5	18.5	D3C1U606+M02***
60.0	57.0	43.5	29.5	52.5	20.3	1.2	15	36	350	6.5	18.5	D3C1U606+M0A***
★ 65.0	57.0	50.0	35.0	52.5	12.7	1.2	15	36	350	6.0	20.0	D3C1U656+M02***
★ 65.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	6.0	20.0	D3C1U656+M0A***
★ 70.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	5.6	21.5	D3C1U706+M0A***
75.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	5.2	23.1	D3C1U756+M0A***
80.0	57.0	50.0	35.0	52.5	20.3	1.2	15	36	350	4.9	24.6	D3C1U806+M0A***
★ 85.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.8	25.1	D3C1U856+M0A***
★ 90.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.6	25.8	D3C1U906+M0A***
★ 95.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.4	27.3	D3C1U956+M0A***
100.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	4.2	28.7	D3C1U107+M0A***
110.0	57.0	55.0	45.0	52.5	20.3	1.2	15	36	350	3.8	31.6	D3C1U117+M0A***
120.0	57.0	65.0	45.0	52.5	20.3	1.2	15	36	350	3.5	34.5	D3C1U127+M0A***
★ 130.0	57.0	65.0	45.0	52.5	20.3	1.2	15	36	350	3.2	35.0	D3C1U137+M0A***
140.0	57.0	65.0	45.0	52.5	20.3	1.2	15	36	350	3.0	35.0	D3C1U147+M0A***

$U_{N,\ 85°C}$: 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			
2.0	32.0	18.0	9.0	27.5	-	0.8	65	10	95	45.4	2.9	D3C2K205+B00***
3.0	32.0	20.0	11.0	27.5	-	0.8	65	10	95	30.3	4.4	D3C2K305+B00***
3.3	32.0	30.0	16.0	27.5	-	0.8	65	10	95	18.8	7.0	D3C2K335+B00***
4.0	32.0	25.0	13.0	27.5	-	0.8	65	10	95	22.7	5.8	D3C2K405+B00***
5.0	32.0	24.5	15.0	27.5	-	0.8	65	10	95	18.2	7.3	D3C2K505+B00***
★ 6.0	32.0	30.0	16.0	27.5	-	0.8	65	10	95	15.1	8.7	D3C2K605+B00***
7.0	32.0	30.0	16.0	27.5	-	0.8	65	10	95	13.0	10.2	D3C2K705+B00***
8.0	32.0	33.0	18.0	27.5	-	0.8	65	10	95	12.5	10.5	D3C2K805+B00***
9.0	32.0	33.0	18.0	27.5	-	0.8	65	10	95	11.1	11.8	D3C2K905+B00***
★ 10.0	32.0	37.0	22.0	27.5	-	1.0	65	10	95	11.0	13.0	D3C2K106+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)	tan δ × (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	D3C2K106+B0B***
★ 11.0	32.0	37.0	22.0	27.5	–	0.8	65	10	95	10.0	12.0	D3C2K116+B00***
★ 11.0	32.0	37.0	22.0	27.5	10.2	0.8	65	10	95	8.3	16.0	D3C2K116+B0B***
12.0	32.0	37.0	22.0	27.5	–	0.8	65	10	95	9.3	12.0	D3C2K126+B00***
12.0	32.0	37.0	22.0	27.5	10.2	0.8	65	10	95	7.6	16.0	D3C2K126+B0B***
13.0	32.0	37.0	22.0	27.5	–	0.8	65	10	95	8.8	12.0	D3C2K136+B00***
13.0	32.0	37.0	22.0	27.5	12.7	0.8	65	10	95	8.1	16.2	D3C2K136+B02***
14.0	32.0	37.0	22.0	27.5	–	0.8	65	10	95	8.2	12.0	D3C2K146+B00***
14.0	32.0	37.0	22.0	27.5	12.7	0.8	65	10	95	7.6	16.5	D3C2K146+B02***
★ 8.0	41.0	30.0	16.0	37.5	–	1.0	30	18	160	22.3	5.4	D3C2K805+F00***
9.0	41.0	30.0	16.0	37.5	–	1.0	30	18	160	19.8	6.1	D3C2K905+F00***
10.0	41.0	33.5	18.5	37.5	–	1.0	30	18	160	17.8	6.7	D3C2K106+F00***
12.0	41.0	33.5	18.5	37.5	–	1.0	30	18	160	14.9	8.1	D3C2K126+F00***
14.0	41.0	33.5	18.5	37.5	–	1.0	30	18	160	13.8	9.4	D3C2K146+F00***
15.0	42.0	40.0	20.0	37.5	10.2	1.0	30	18	160	11.9	10.1	D3C2K156+F0B***
20.0	42.0	44.0	24.0	37.5	12.7	1.0	30	18	160	8.9	13.5	D3C2K206+F02***
25.0	42.0	44.0	24.0	37.5	12.7	1.0	30	18	160	7.1	16.8	D3C2K256+F02***
30.0	42.0	45.0	30.0	37.5	12.7	1.2	30	18	160	5.9	20.2	D3C2K306+F02***
30.0	42.0	45.0	30.0	37.5	20.3	1.2	30	18	160	5.9	20.2	D3C2K306+F0A***
★ 35.0	42.0	50.0	35.0	37.5	20.3	1.2	30	18	160	5.5	22.0	D3C2K356+F0A***
40.0	42.0	50.0	35.0	37.5	20.3	1.2	30	18	160	4.8	25.1	D3C2K406+F0A***
★ 45.0	42.0	55.0	40.0	37.5	20.3	1.2	30	18	160	4.2	28.3	D3C2K456+F0A***
50.0	42.0	55.0	40.0	37.5	20.3	1.2	30	18	160	3.8	31.4	D3C2K506+F0A***
★ 55.0	42.0	60.0	45.0	37.5	20.3	1.2	30	18	160	3.5	34.5	D3C2K556+F0A***
★ 60.0	42.0	60.0	45.0	37.5	20.3	1.2	30	18	160	3.2	35.0	D3C2K606+F0A***
★ 65.0	42.0	60.0	45.0	37.5	20.3	1.2	30	18	160	2.9	35.0	D3C2K656+F0A***
★ 25.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	14.3	8.4	D3C2K256+M02***
★ 30.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	11.9	10.1	D3C2K306+M02***
★ 35.0	57.0	45.0	25.0	52.5	12.7	1.2	15	33	320	10.2	11.8	D3C2K356+M02***
40.0	57.0	43.5	29.5	52.5	12.7	1.2	15	33	320	8.9	13.5	D3C2K406+M02***
40.0	57.0	43.5	29.5	52.5	20.3	1.2	15	33	320	8.9	13.5	D3C2K406+M0A***
45.0	57.0	43.5	29.5	52.5	12.7	1.2	15	33	320	7.9	15.1	D3C2K456+M02***
45.0	57.0	43.5	29.5	52.5	20.3	1.2	15	33	320	7.9	15.1	D3C2K456+M0A***
50.0	57.0	50.0	35.0	52.5	12.7	1.2	15	33	320	7.1	16.8	D3C2K506+M02***
50.0	57.0	50.0	35.0	52.5	20.3	1.2	15	33	320	7.1	16.8	D3C2K506+M0A***
55.0	57.0	50.0	35.0	52.5	20.3	1.2	15	33	320	6.5	18.5	D3C2K556+M0A***
60.0	57.0	50.0	35.0	52.5	20.3	1.2	15	33	320	5.9	20.2	D3C2K606+M0A***
★ 65.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	5.5	21.9	D3C2K656+M0A***
70.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	5.1	23.6	D3C2K706+M0A***
★ 75.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.8	25.2	D3C2K756+M0A***
80.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.6	25.9	D3C2K806+M0A***
★ 85.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.5	26.7	D3C2K856+M0A***
90.0	57.0	55.0	45.0	52.5	20.3	1.2	15	33	320	4.2	28.3	D3C2K906+M0A***
95.0	57.0	65.0	45.0	52.5	20.3	1.2	15	33	320	4.0	29.8	D3C2K956+M0A***
100.0	57.0	65.0	45.0	52.5	20.3	1.2	15	33	320	3.8	31.4	D3C2K107+M0A***
110.0	57.0	65.0	45.0	52.5	20.3	1.2	15	33	320	3.5	34.5	D3C2K117+M0A***

■ Technical data (mm)

$U_{N,\ 85°C}$: 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	D3C1X105+B00***
2.0	32.0	20.0	11.0	27.5	–	0.8	70	9	90	43.0	3.1	D3C1X205+B00***
3.0	32.0	22.0	13.0	27.5	–	0.8	70	9	90	28.7	4.6	D3C1X305+B00***
4.0	32.0	24.5	15.0	27.5	–	0.8	70	9	90	21.5	6.1	D3C1X405+B00***
5.0	32.0	30.0	16.0	27.5	–	0.8	70	9	90	17.2	7.7	D3C1X505+B00***
★ 6.0	32.0	33.0	18.0	27.5	–	0.8	70	9	90	18.0	6.9	D3C1X605+B00***
7.0	32.0	33.0	18.0	27.5	–	0.8	70	9	90	13.0	10.2	D3C1X705+B00***
8.0	32.0	37.0	22.0	27.5	–	0.8	70	9	90	11.5	11.4	D3C1X805+B00***
8.0	32.0	37.0	22.0	27.5	10.2	0.8	70	9	90	10.7	12.3	D3C1X805+B0B***
9.0	32.0	37.0	22.0	27.5	–	0.8	70	9	90	10.4	12.0	D3C1X905+B00***
9.0	32.0	37.0	22.0	27.5	12.7	0.8	70	9	90	9.6	13.8	D3C1X905+B02***
10.0	32.0	37.0	22.0	27.5	–	0.8	70	9	90	12.0	12.2	D3C1X106+B00***
10.0	32.0	37.0	22.0	27.5	12.7	0.8	70	9	90	8.6	15.4	D3C1X106+B02***
4.7	41.0	26.0	15.0	37.5	–	1.0	35	17	150	35.6	3.4	D3C1X475+F00***
5.0	41.0	30.0	16.0	37.5	–	1.0	35	17	150	33.4	3.6	D3C1X505+F00***
★ 6.0	41.0	30.0	16.0	37.5	–	1.0	35	17	150	27.9	4.3	D3C1X605+F00***
7.0	41.0	30.0	16.0	37.5	–	1.0	35	17	150	23.9	5.0	D3C1X705+F00***
8.0	41.0	33.5	18.5	37.5	–	1.0	35	17	150	20.9	5.7	D3C1X805+F00***
10.0	42.0	40.0	20.0	37.5	10.2	1.0	35	17	150	16.7	7.2	D3C1X106+F0B***
12.0	41.0	37.0	22.0	37.5	10.2	1.0	35	17	150	13.9	8.6	D3C1X126+F0B***
15.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	11.1	10.8	D3C1X156+F02***
★ 18.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	9.3	12.9	D3C1X186+F02***
20.0	42.0	44.0	24.0	37.5	12.7	1.0	35	17	150	8.4	14.4	D3C1X206+F02***
25.0	42.0	45.0	30.0	37.5	12.7	1.2	35	17	150	6.7	17.9	D3C1X256+F02***
25.0	42.0	45.0	30.0	37.5	20.3	1.2	35	17	150	6.7	17.9	D3C1X256+F0A***
30.0	42.0	50.0	35.0	37.5	20.3	1.2	35	17	150	5.6	21.5	D3C1X306+F0A***
★ 35.0	42.0	55.0	40.0	37.5	20.3	1.2	35	17	150	5.1	23.4	D3C1X356+F0A***
40.0	42.0	55.0	40.0	37.5	20.3	1.2	35	17	150	4.5	26.8	D3C1X406+F0A***
★ 45.0	42.0	60.0	45.0	37.5	20.3	1.2	35	17	150	4.0	30.1	D3C1X456+F0A***
★ 50.0	42.0	60.0	45.0	37.5	20.3	1.2	35	17	150	3.6	33.5	D3C1X506+F0A***
★ 15.0	57.0	45.0	25.0	52.5	10.2	1.2	15	31	300	22.3	5.4	D3C1X156+M0B***
★ 20.0	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	16.7	7.2	D3C1X206+M02***
★ 25.0	57.0	45.0	25.0	52.5	12.7	1.2	15	31	300	13.4	9.0	D3C1X256+M02***
★ 30.0	57.0	43.5	29.5	52.5	12.7	1.2	15	31	300	11.1	10.8	D3C1X306+M02***
30.0	57.0	43.5	29.5	52.5	20.3	1.2	15	31	300	11.1	10.8	D3C1X306+M0A***
★ 35.0	57.0	43.5	29.5	52.5	12.7	1.2	15	31	300	9.6	12.6	D3C1X356+M02***
★ 35.0	57.0	43.5	29.5	52.5	20.3	1.2	15	31	300	9.6	12.6	D3C1X356+M0A***
40.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	8.4	14.4	D3C1X406+M0A***
★ 45.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	7.4	16.1	D3C1X456+M0A***
50.0	57.0	50.0	35.0	52.5	20.3	1.2	15	31	300	6.7	17.9	D3C1X506+M0A***
★ 55.0	57.0	55.0	45.0	52.5	20.3	1.2	15	31	300	6.1	19.7	D3C1X556+M0A***
★ 60.0	57.0	55.0	45.0	52.5	20.3	1.2	15	31	300	5.6	21.5	D3C1X606+M0A***
★ 65.0	57.0	55.0	45.0	52.5	20.3	1.2	15	31	300	5.1	23.3	D3C1X656+M0A***
★ 70.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.8	25.1	D3C1X706+M0A***
★ 75.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.7	25.7	D3C1X756+M0A***
★ 80.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.5	26.8	D3C1X806+M0A***
85.0	57.0	65.0	45.0	52.5	20.3	1.2	15	31	300	4.2	28.5	D3C1X856+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)	tan δ × (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	D3C3A105+B00***
2.0	32.0	22.0	13.0	27.5	–	0.8	75	8	80	38.2	3.5	D3C3A205+B00***
3.0	32.0	24.5	15.0	27.5	–	0.8	75	8	80	25.5	5.2	D3C3A305+B00***
4.0	32.0	30.0	16.0	27.5	–	0.8	75	8	80	19.1	6.9	D3C3A405+B00***
5.0	32.0	33.0	18.0	27.5	–	0.8	75	8	80	15.3	8.6	D3C3A505+B00***
6.0	32.0	33.0	18.0	27.5	–	0.8	75	8	80	14.9	8.9	D3C3A605+B00***
★ 7.0	32.0	37.0	22.0	27.5	–	0.8	75	8	80	14.5	9.4	D3C3A705+B00***
★ 7.0	32.0	37.0	22.0	27.5	12.7	0.8	75	8	80	11.4	11.6	D3C3A705+B02***
8.0	32.0	37.0	22.0	27.5	–	0.8	75	8	80	13.0	10.8	D3C3A805+B00***
8.0	32.0	37.0	22.0	27.5	12.7	0.8	75	8	80	10.0	13.3	D3C3A805+B02***
★ 5.0	41.0	30.0	16.0	37.5	–	1.0	37	15	140	31.2	3.8	D3C3A505+F00***
6.0	41.0	30.0	16.0	37.5	–	1.0	37	15	140	26.0	4.6	D3C3A605+F00***
7.0	41.0	33.5	18.5	37.5	–	1.0	37	15	140	22.3	5.4	D3C3A705+F00***
8.0	41.0	33.5	18.5	37.5	–	1.0	37	15	140	19.5	6.2	D3C3A805+F00***
10.0	42.0	40.0	20.0	37.5	–	1.0	37	15	140	15.6	6.7	D3C3A106+F00***
10.0	42.0	40.0	20.0	37.5	10.2	1.0	37	15	140	15.6	7.7	D3C3A106+F0B***
12.0	41.0	37.0	22.0	37.5	12.7	1.0	37	15	140	13.0	9.2	D3C3A126+F02***
12.0	41.0	37.0	22.0	37.5	–	1.0	37	15	140	15.0	8.0	D3C3A126+F00***
15.0	42.0	44.0	24.0	37.5	12.7	1.0	37	15	140	10.4	11.5	D3C3A156+F02***
18.0	42.0	45.0	30.0	37.5	12.7	1.2	37	15	140	8.7	13.8	D3C3A186+F02***
18.0	42.0	45.0	30.0	37.5	20.3	1.2	37	15	140	8.7	13.8	D3C3A186+F0A***
20.0	42.0	45.0	30.0	37.5	12.7	1.2	37	15	140	7.8	15.4	D3C3A206+F02***
20.0	42.0	45.0	30.0	37.5	20.3	1.2	37	15	140	7.8	15.4	D3C3A206+F0A***
25.0	42.0	50.0	35.0	37.5	20.3	1.2	37	15	140	6.2	19.2	D3C3A256+F0A***
★ 30.0	42.0	55.0	40.0	37.5	20.3	1.2	37	15	140	5.2	23.1	D3C3A306+F0A***
35.0	42.0	55.0	40.0	37.5	20.3	1.2	37	15	140	4.8	25.1	D3C3A356+F0A***
★ 40.0	42.0	60.0	45.0	37.5	20.3	1.2	37	15	140	4.2	28.7	D3C3A406+F0A***
★ 15.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	20.8	5.8	D3C3A156+M02***
★ 20.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	15.6	7.7	D3C3A206+M02***
★ 25.0	57.0	45.0	25.0	52.5	12.7	1.2	17	28	280	12.5	9.6	D3C3A256+M02***
★ 30.0	57.0	43.5	29.5	52.5	12.7	1.2	17	28	280	10.4	11.5	D3C3A306KM02***
30.0	57.0	43.5	29.5	52.5	20.3	1.2	17	28	280	10.4	11.5	D3C3A306KM0A***
30.0	57.0	45.0	30.0	52.5	12.7	1.2	17	28	280	10.4	11.5	D3C3A306JM02***
30.0	57.0	45.0	30.0	52.5	20.3	1.2	17	28	280	10.4	11.5	D3C3A306JM0A***
★ 35.0	57.0	50.0	35.0	52.5	20.3	1.2	17	28	280	8.9	13.5	D3C3A356+M0A***
40.0	57.0	50.0	35.0	52.5	20.3	1.2	17	28	280	7.8	15.4	D3C3A406+M0A***
45.0	57.0	55.0	45.0	52.5	20.3	1.2	17	28	280	6.9	17.3	D3C3A456+M0A***
50.0	57.0	55.0	45.0	52.5	20.3	1.2	17	28	280	6.2	19.2	D3C3A506+M0A***
55.0	57.0	55.0	45.0	52.5	20.3	1.2	17	28	280	5.7	21.1	D3C3A556+M0A***
★ 60.0	57.0	65.0	45.0	52.5	20.3	1.2	17	28	280	5.2	23.1	D3C3A606+M0A***
65.0	57.0	65.0	45.0	52.5	20.3	1.2	17	28	280	4.8	25.0	D3C3A656+M0A***
70.0	57.0	65.0	45.0	52.5	20.3	1.2	17	28	280	4.5	26.9	D3C3A706+M0A***

■ Technical data (mm)

$U_{N,\ 85℃}$: 1 100Vdc												
C_N (μF)	W ±1.0	0 ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10k0z (mΩ)	I_{max} (A)	Part number
								1k0z	10k0z			
0.68	32.0	20.0	11.0	27.5	–	0.8	80	8	70	80.0	1.7	D3C1M684+B00***
1.0	32.0	20.0	11.0	27.5	–	0.8	80	8	70	59.4	2.2	D3C1M105+B00***
1.5	32.0	22.0	13.0	27.5	–	0.8	80	8	70	55.7	2.4	D3C1M155+B00***
2.0	32.0	25.0	13.0	27.5	–	0.8	80	8	70	27.9	4.7	D3C1M205JB00***
★ 2.0	32.0	25.0	13.0	27.5	–	0.8	80	8	70	27.9	4.7	D3C1M205KB00***
3.0	32.0	30.0	16.0	27.5	–	0.8	80	8	70	20.4	6.5	D3C1M305+B00***
4.0	32.0	33.0	18.0	27.5	–	0.8	80	8	70	15.3	8.6	D3C1M405+B00***
5.0	32.0	37.0	22.0	27.5	–	0.8	80	8	70	14.0	9.8	D3C1M505+B00***
5.0	32.0	37.0	22.0	27.5	10.2	0.8	80	8	70	12.3	10.8	D3C1M505+B0B***
6.0	32.0	37.0	22.0	27.5	–	0.8	80	8	70	12.3	10.8	D3C1M605+B00***
6.0	32.0	37.0	22.0	27.5	10.2	0.8	80	8	70	10.2	12.9	D3C1M605+B0B***
★ 3.0	41.0	30.0	16.0	37.5	–	1.0	40	15	130	48.3	2.5	D3C1M305+F00***
★ 4.0	41.0	30.0	16.0	37.5	–	1.0	40	15	130	36.2	3.3	D3C1M405+F00***
★ 4.7	41.0	33.5	18.5	37.5	–	1.0	40	15	130	30.8	3.9	D3C1M475+F00***
5.0	41.0	33.5	18.5	37.5	–	1.0	40	15	130	29.0	4.1	D3C1M505+F00***
★ 6.0	41.0	33.5	18.5	37.5	–	1.0	40	15	130	24.2	5.0	D3C1M605+F00***
7.0	42.0	40.0	20.0	37.5	10.2	1.0	40	15	130	20.7	5.8	D3C1M705+F0B***
8.0	41.0	37.0	22.0	37.5	10.2	1.0	40	15	130	18.1	6.6	D3C1M805+F0B***
9.0	41.0	37.0	22.0	37.5	12.7	1.0	40	15	130	16.1	7.5	D3C1M905+F02***
10.0	42.0	44.0	24.0	37.5	12.7	1.0	40	15	130	14.5	8.3	D3C1M106+F02***
12.0	42.0	44.0	24.0	37.5	12.7	1.0	40	15	130	12.1	9.9	D3C1M126+F02***
★ 12.0	42.0	44.0	24.0	37.5	–	1.0	40	15	130	14.0	8.6	D3C1M126+F00***
14.0	42.0	45.0	30.0	37.5	–	1.2	40	15	130	10.4	11.6	D3C1M146+F00***
15.0	42.0	45.0	30.0	37.5	12.7	1.2	40	15	130	9.7	12.4	D3C1M156+F02***
15.0	42.0	45.0	30.0	37.5	20.3	1.2	40	15	130	9.7	12.4	D3C1M156+F0A***
★ 18.0	42.0	50.0	35.0	37.5	20.3	1.2	40	15	130	8.1	14.9	D3C1M186+F0A***
20.0	42.0	50.0	35.0	37.5	20.3	1.2	40	15	130	7.2	16.6	D3C1M206+F0A***
25.0	42.0	55.0	40.0	37.5	20.3	1.2	40	15	130	5.8	20.7	D3C1M256+F0A***
★ 30.0	42.0	60.0	45.0	37.5	20.3	1.2	40	15	130	4.8	24.8	D3C1M306+F0A***
★ 15.0	57.0	45.0	25.0	52.5	12.7	1.2	20	27	260	19.3	6.2	D3C1M156+M02***
20.0	57.0	43.5	29.5	52.5	12.7	1.2	20	27	260	14.5	8.3	D3C1M206+M02***
20.0	57.0	43.5	29.5	52.5	20.3	1.2	20	27	260	14.5	8.3	D3C1M206+M0A***
25.0	57.0	50.0	35.0	52.5	20.3	1.2	20	27	260	11.6	10.4	D3C1M256+M0A***
30.0	57.0	50.0	35.0	52.5	20.3	1.2	20	27	260	9.7	12.4	D3C1M306+M0A***
★ 35.0	57.0	55.0	45.0	52.5	20.3	1.2	20	27	260	8.4	14.3	D3C1M356+M0A***
40.0	57.0	55.0	45.0	52.5	20.3	1.2	20	27	260	7.8	15.5	D3C1M406+M0A***
★ 45.0	57.0	55.0	45.0	52.5	20.3	1.2	20	27	260	6.9	17.4	D3C1M456+M0A***
50.0	57.0	65.0	45.0	52.5	20.3	1.2	20	27	260	6.2	19.3	D3C1M506+M0A***
★ 55.0	57.0	65.0	45.0	52.5	20.3	1.2	20	27	260	5.6	21.3	D3C1M556+M0A***

■ Technical data (mm)

$U_{N,\ 85℃}$: 1 200Vdc												
C_N (μF)	W ±1.0	O ±1.0	T ±1.0	P ±0.5	b ±0.5	d ±0.05	dV/dt (V/μs)	tanδ × (10^{-4})		ESR @10kOz (mΩ)	I_{max} (A)	Part number
								1kOz	10kOz			
1.0	32.0	20.0	11.0	27.5	-	0.8	90	7	55	39.5	3.5	D3C3L105+BO0***
1.5	32.0	22.0	13.0	27.5	-	0.8	90	7	55	32.9	3.7	D3C3L155+BO0***
2.0	32.0	24.5	15.0	27.5	-	0.8	90	7	55	26.3	5.0	D3C3L205+BO0***
3.0	32.0	30.0	16.0	27.5	-	0.8	90	7	55	17.5	7.5	D3C3L305+BO0***
4.0	32.0	33.0	18.0	27.5	-	0.8	90	7	55	13.9	9.5	D3C3L405+BO0***
5.0	32.0	37.0	22.0	27.5	-	0.8	90	7	55	12.7	10.4	D3C3L505+BO0***
5.0	32.0	37.0	22.0	27.5	10.2	0.8	90	7	55	11.1	11.8	D3C3L505+BOB***
3.0	41.0	30.0	16.0	37.5	-	1.0	45	13	100	37.2	3.2	D3C3L305+FO0***
4.0	41.0	30.0	16.0	37.5	-	1.0	45	13	100	27.9	4.3	D3C3L405+FO0***
5.0	41.0	33.5	18.5	37.5	-	1.0	45	13	100	22.3	5.4	D3C3L505+FO0***
6.0	42.0	40.0	20.0	37.5	-	1.0	45	13	100	18.6	6.5	D3C3L605+FO0***
★ 7.0	41.0	37.0	22.0	37.5	10.2	1.0	45	13	100	15.9	7.5	D3C3L705+FOB***
★ 8.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	13.9	8.6	D3C3L805+FO2***
★ 9.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	12.4	9.7	D3C3L905+FO2***
10.0	42.0	44.0	24.0	37.5	12.7	1.0	45	13	100	11.1	10.8	D3C3L106+FO2***
★ 12.0	42.0	45.0	30.0	37.5	12.7	1.2	45	13	100	9.3	12.9	D3C3L126+FO2***
★ 12.0	42.0	45.0	30.0	37.5	20.3	1.2	45	13	100	9.3	12.9	D3C3L126+FOA***
★ 15.0	42.0	50.0	35.0	37.5	20.3	1.2	45	13	100	7.4	16.1	D3C3L156+FOA***
★ 18.0	42.0	50.0	35.0	37.5	20.3	1.2	45	13	100	6.6	18.1	D3C3L186+FOA***
20.0	42.0	55.0	40.0	37.5	20.3	1.2	45	13	100	6.0	20.1	D3C3L206+FOA***
★ 25.0	42.0	60.0	45.0	37.5	20.3	1.2	45	13	100	4.8	25.1	D3C3L256+FOA***
★ 12.0	57.0	45.0	25.0	52.5	12.7	1.2	23	24	200	19.9	6.0	D3C3L126+MO2***
★ 15.0	57.0	45.0	25.0	52.5	12.7	1.2	23	24	200	15.9	7.5	D3C3L156+MO2***
★ 20.0	57.0	43.5	29.5	52.5	12.7	1.2	23	24	200	11.9	10.0	D3C3L206KMO2***
20.0	57.0	43.5	29.5	52.5	20.3	1.2	23	24	200	11.9	10.0	D3C3L206KMOA***
20.0	57.0	45.0	30.0	52.5	12.7	1.2	23	24	200	11.9	10.0	D3C3L206JMO2***
20.0	57.0	45.0	30.0	52.5	20.3	1.2	23	24	200	11.9	10.0	D3C3L206JMOA***
25.0	57.0	50.0	35.0	52.5	20.3	1.2	23	24	200	9.6	12.6	D3C3L256+MOA***
30.0	57.0	55.0	45.0	52.5	20.3	1.2	23	24	200	8.0	15.1	D3C3L306+MOA***
35.0	57.0	55.0	45.0	52.5	20.3	1.2	23	24	200	6.8	17.6	D3C3L356+MOA***
40.0	57.0	65.0	45.0	52.5	20.3	1.2	23	24	200	6.0	20.1	D3C3L406+MOA***
45.0	57.0	65.0	45.0	52.5	20.3	1.2	23	24	200	5.3	22.6	D3C3L456+MOA***

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

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

3. "I_{max}" =Maximum r.m.s current at 10kHz, Θ_{amb}=85℃, $\triangle\Theta_{case}$=15.0℃.

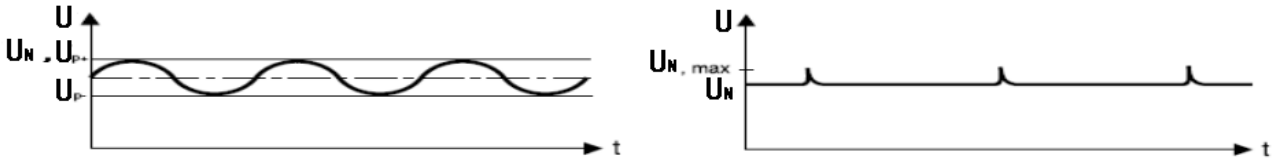
4. "★" = Arc-bottom of the outer case.

5. "ESR" are typical values.

■ Typical waveforms

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

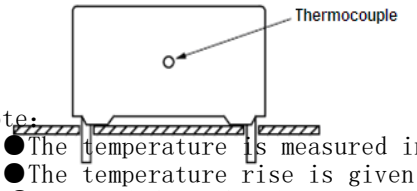
Non reversing recurrent waveform



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



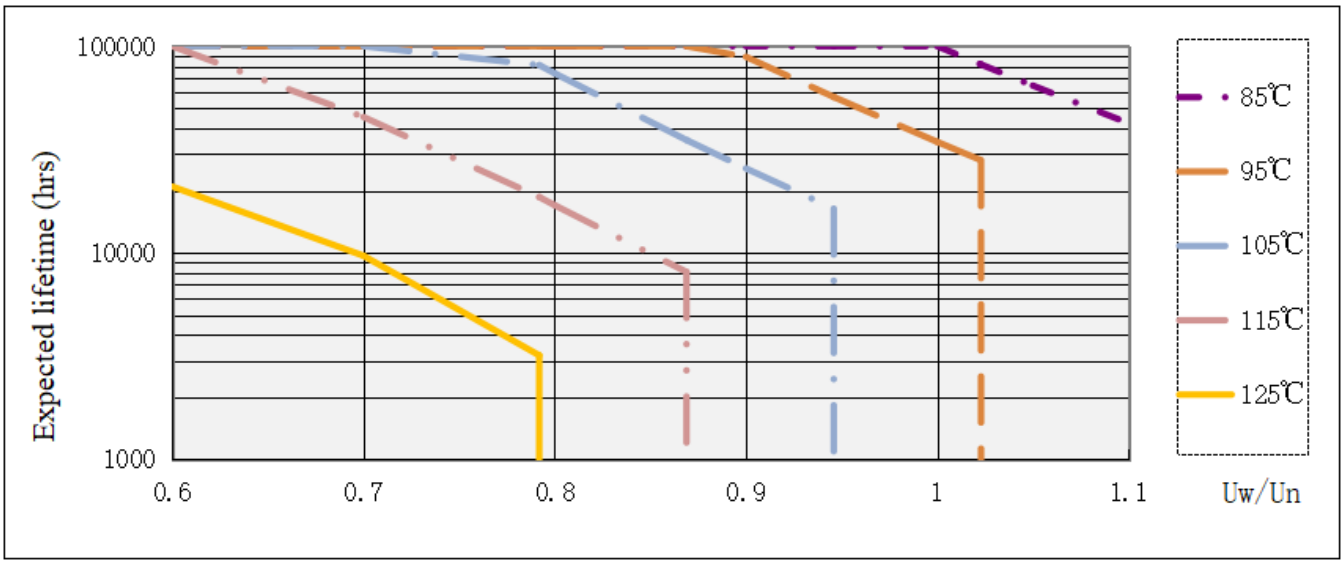
Note:

- 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

■ Over voltages according to IEC 61071:

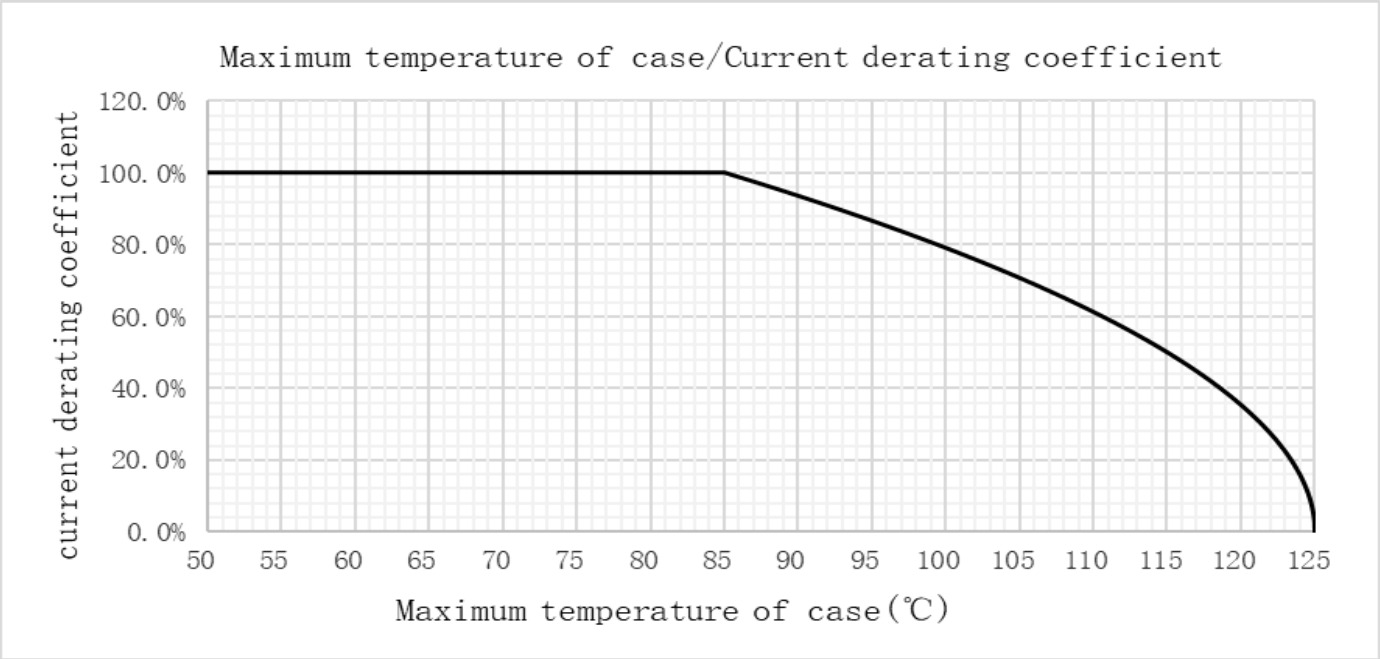
1.1 U_N	30% of on-load-dur.
1.15 U_N	30min/day
1.2 U_N	5min/day
1.3 U_N	1min/day
1.5 U_N	100ms every time, 1000 times during the whole life of the capacitor

■ Lifetime expectancy (typical curve, hotspot temperature)



■ 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 of ambient:



Note:
▲ When the maximum temperature of ambient is lower than 85℃, the current coefficient is 1.
▲ When the temperature of ambient rises, the derating shall be according to the above current derating coefficient.

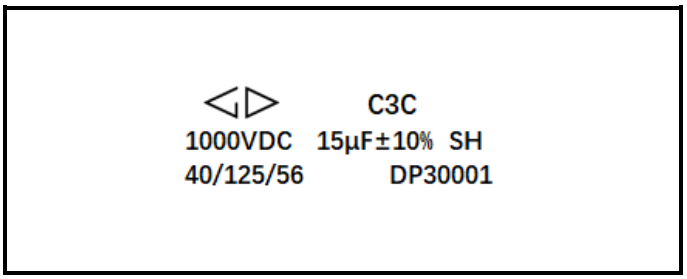
■ Test Method And Performance

No.	Item	Performance	Testing Method AEC-Q200
1	Terminal strength	Conditions：A Tensile force：10N	No visible damage
2	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	
	Resistance to Soldering Heat	Temperature:260℃±5℃ Time:10s±1s	No visible damage
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	|ΔC/C| ≤ 2%(relative to the initial value) Increase of tgδ: ≤0.005
3	Resistance to Solvents	Temperature:25℃±5℃ Solvent: isopropyl alcohol Immersion 1min±0.5min then N=0.57~0.85N Brush 10strokes(wet bristle) Repeated 3 times	Legible marking No visible damage
4	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	
	Temperature cycle	Temperature range: -40℃～125℃ Duration: 15min dwell time at each temperature extreme Cycles:1000	
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	| △ C/C| ≤ 5%(relative to the initial value) Increase of tgδ: ≤0.005
5	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	
	Vibration	Frequence:10Hz～40.7Hz A=±0.75mm Frequence:40.7Hz～2000Hz a=50m/ s2 Logarithmic cycling 12times in each of 3 directions	No visible damage
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	| △ C/C| ≤ 2%(relative to the initial value) Increase of tgδ: ≤0.005

No.	Item	Performance	Testing Method AEC-Q200
6	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	

	Mechanical shock	Half-sine pulse Peak values=100g Pulse duration:6ms Speed:3.75m/s 3 shocks in each direction of each axis, total 18 shocks	No visible damage
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	|ΔC/C| ≤ 2%(relative to the initial value) Increase of tgδ: ≤0.005
7	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	
	High temperature Exposure(Storage)	Temperature:125℃±2℃ Unpowered Duration :1000hrs	No visible damage
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	| △ C/C| ≤ 5%(relative to the initial value) Increase of tgδ: ≤0.005
8	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	
	Biased humidity	Temperature:40℃±2℃ Humidity :93+2 -3%RH Voltage :1.0×U_N Duration :1000hrs	No visible damage
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	| △ C/C| ≤ 5%(relative to the initial value) Increase of tgδ: ≤0.005
9	Initial measurements	Capacitance at 1kHz tgδ at 10kHz	
	Endurance	Temperature:125℃±2℃ Voltage :1.25 U_{OP} Duration :1000hrs	No visible damage
	Final measurements	Capacitance at 1kHz tgδ at 10kHz	| △ C/C| ≤ 5%(relative to the initial value) Increase of tgδ: ≤0.005

■ Marking(For Example)

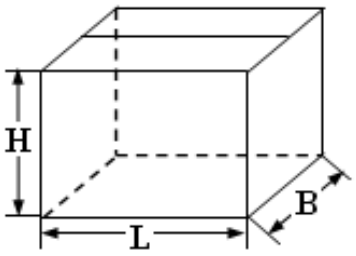


◁▷ 3.0μF±10%	C3C 800VDC 40/125/56 SH	305K800 and DP10001

◁▷	Brand	D3D	Type
1000VDC 800VDC	Rated voltage	15μF±10% 3.0μF±10%	Rated capacitance and tolerance
SH	Self-healing capacitor	40/125/56	Climate category
DP30001 DP10001	Lot No.		

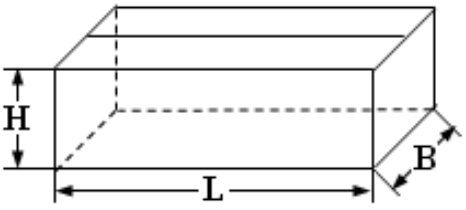
■ Packing box sizes(mm)(example)

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