HCDB

DC-Link Capacitor for PCB (Standard)



Features

- Metallized polypropylene film
- Plastic case, filled with resin (UL 94 V-0)
- Good self-healing performance
- Low losses and high current capability
- Automotive (AEC-Q200) grade

Typical Applications

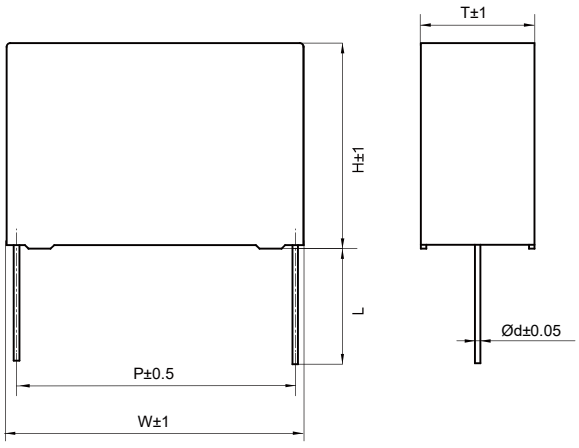
- For use in DC filtering, DC link, power electronics, energy storage, renewable energy grid interface, motor drives, and automotive applications.

Safety Approvals

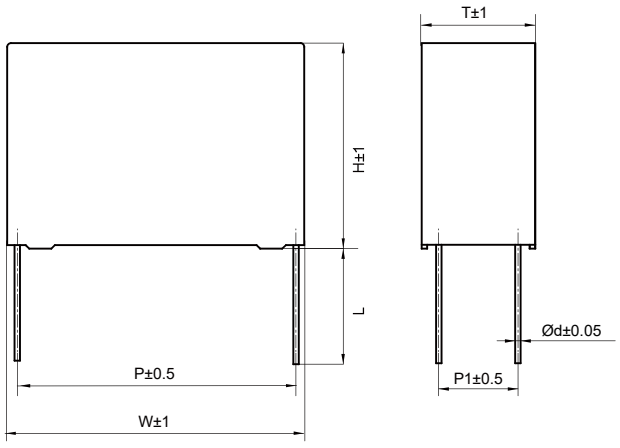
	UL	UL810	0.6μF-140μF,max 3000Vd.c. max 105℃ File No.: E222132,CCN: CZDS2
	TÜV	EN 61071:2017	0.6μF-140μF,μF±5%,±10%,500Vd.c.-1500Vd.c. 40/85/56,40/105/56 File No.: R50516398

Notes: The above certificate No.is just a license No. Please refer to the certificates we supplied for detail information.

Outline Drawing



2Pins



4Pins

Notes: All product dimensions are in mm.
See the Technical Parameters table for details.

Specifications

Reference standards		IEC 61071,GB/T 17702
Rated voltage	U_{NDC}	500Vd.c.~1500Vd.c.
Capacitance range	C_N	0.6μF~140μF
Capacitance tolerance		±5%(J),±10%(K)
Dielectric loss factor	$tan\delta_d$	0.0002
Insulation resistance (25℃±5℃,100Vd.c.,1min)	$IR \times C_N$	⩾10000s
Climatic category		40/85/56
Operating temperature range(case)	T_{OP}	-40℃~+105℃(85℃~105℃:decreasing factor 1.35% per ℃ for U_{NDC})
Voltage proof between terminals	U_{t-t}	$1.5U_{NDC}$/5s
Maximum applicable peak to peak ripple voltage	U_{pp}	0.2 x U_{NDC}
Rated temperature	T_R	85℃
Self-inductance	L_s	<1nH per mm of lead spacing
Failure rate	λ	⩽100FIT
Over voltage		1.1U_{NDC}(30% of on-load-dur.) 1.15U_{NDC}(30 min/day) 1.2U_{NDC}(5 min/day) 1.3U_{NDC}(1 min/day)

Ordering Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
H	C	D	B	/	1	U	1	0	0	4	K	B	0	1	0	0	0	C	0	0	0
Series code					**Rated voltage**		**Rated capacitance**				**Capacitance tolerance**	**Pitch**	**Lead QTY**	**Lead diameter**	**Internal code**			**Lead form and packaging code**			

2H=500Vd.c.
1U=600Vd.c.
1V=700Vd.c.
2K=800Vd.c.
1X=900Vd.c.
3A=1000Vd.c.
1M=1100Vd.c.
3L=1200Vd.c.
2M=1300Vd.c.
3M=1400Vd.c.
4M=1500Vd.c.

For example:
1004=100×10⁴pF
=1μF

J=±5%
M=±10%

B=27.5mm
F=37.5mm
M=52.5mm

0=2pins
A=4pins,P1=20.3mm
B=4pins,P1=10.2mm

1=0.8mm
2=1.0mm
3=1.2mm

See table 1

Table 1: Lead Form and Packaging Code

Digit 19		Digit 20~21		Digit 22	
Code	Explanation	Code	Explanation	Code	Explanation
C	Straight Lead[1)]	00	Standard lead length(5.5 mm)	0	Lead length tolerance±0.5 mm
		35	Lead length 3.5 mm[2)]		

Notes: 1) Other lead form and packaging options are available upon customer request.
2) If the lead length is 4.5 mm, the code is C450, etc.

Technical Parameters

$U_{N,85℃}$=500Vd.c.; $U_{N,105℃}$=350Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
3.0	32.0	18.0	9.0	27.5	-	0.8	65	195	10	100	34.5	2.9	HCDB/2H3004+B01000****
4.0	32.0	20.0	11.0	27.5	-	0.8	65	260	10	100	25.9	3.7	HCDB/2H4004+B01000****
5.0	32.0	20.0	11.0	27.5	-	0.8	65	325	10	100	20.7	5.0	HCDB/2H5004+B01000****
6.0	32.0	22.0	13.0	27.5	-	0.8	65	390	10	100	17.2	5.0	HCDB/2H6004+B01000****
7.0	32.0	25.0	13.0	27.5	-	0.8	65	455	10	100	14.8	5.4	HCDB/2H7004+B01000****
8.0	32.0	25.0	13.0	27.5	-	0.8	65	520	10	100	12.9	5.8	HCDB/2H8004+B01000****
9.0	32.0	25.0	14.0	27.5	-	0.8	65	585	10	100	11.5	6.1	HCDB/2H9004+B01000****
10.0	32.0	25.0	14.0	27.5	-	0.8	65	650	10	100	10.3	6.5	HCDB/2H1005+B01000****
12.0	32.0	30.0	16.0	27.5	-	0.8	65	780	10	100	8.6	8.1	HCDB/2H1205+B01000****
16.0	32.0	33.0	18.0	27.5	-	0.8	65	1040	10	100	6.5	9.8	HCDB/2H1605+B01000****
20.0	32.0	37.0	22.0	27.5	-	0.8	65	1300	10	100	5.2	12.0	HCDB/2H2005+B01000****
24.0	32.0	37.0	22.0	27.5	-	0.8	65	1560	10	100	4.3	13.2	HCDB/2H2405+B01000****
24.0	42.0	33.0	18.0	37.5	-	1	30	720	10	150	7.8	10.4	HCDB/2H2405+F02000****
30.0	42.0	40.0	20.0	37.5	-	1	30	900	15	150	6.3	13.2	HCDB/2H3005+F02000****
30.0	42.0	40.0	20.0	37.5	10.2	1	30	900	15	150	5.3	14.6	HCDB/2H3005+FB2000****
35.0	42.0	44.0	24.0	37.5	-	1	30	1050	15	150	5.4	14.3	HCDB/2H3505+F02000****
35.0	42.0	44.0	24.0	37.5	10.2	1	30	1050	15	150	4.5	15.7	HCDB/2H3505+FB2000****
40.0	42.0	44.0	24.0	37.5	-	1	30	1200	15	150	4.7	15.3	HCDB/2H4005+F02000****
40.0	42.0	44.0	24.0	37.5	10.2	1	30	1200	15	150	3.9	16.9	HCDB/2H4005+FB2000****
45.0	42.0	44.0	24.0	37.5	-	1	30	1350	15	150	4.2	16.2	HCDB/2H4505+F02000****
45.0	42.0	44.0	24.0	37.5	10.2	1	30	1350	15	150	3.4	18.0	HCDB/2H4505+FB2000****
50.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1500	15	150	3.8	18.5	HCDB/2H5005+FA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=500Vd.c.; $U_{N,105℃}$=350Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
55.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1650	15	150	3.4	19.6	HCDB/2H5505+FA3000****
60.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1800	15	150	3.1	20.5	HCDB/2H6005+FA3000****
65.0	42.0	46.0	35.0	37.5	20.3	1.2	30	1950	20	200	2.9	22.2	HCDB/2H6505+FA3000****
70.0	42.0	50.0	35.0	37.5	20.3	1.2	30	2100	20	200	2.7	23.0	HCDB/2H7005+FA3000****
75.0	42.0	50.0	35.0	37.5	20.3	1.2	30	2250	20	200	2.5	23.9	HCDB/2H7505+FA3000****
80.0	42.0	55.0	40.0	37.5	20.3	1.2	30	2400	20	200	2.4	25.5	HCDB/2H8005+FA3000****
85.0	42.0	55.0	40.0	37.5	20.3	1.2	30	2550	20	200	2.2	26.6	HCDB/2H8505+FA3000****
90.0	42.0	55.0	40.0	37.5	20.3	1.2	30	2700	20	200	2.1	27.3	HCDB/2H9005+FA3000****
90.0	57.5	45.0	30.0	52.5	20.3	1.2	15	1350	35	350	4.4	19.2	HCDB/2H9005+MA3000****
95.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1425	35	350	4.2	21.2	HCDB/2H9505+MA3000****
100.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1500	35	350	3.9	22.0	HCDB/2H1006+MA3000****
110.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1650	35	350	3.6	22.9	HCDB/2H1106+MA3000****
120.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1800	35	350	3.3	27.0	HCDB/2H1206+MA3000****
130.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1950	35	350	3	28.3	HCDB/2H1306+MA3000****
140.0	57.5	55.0	45.0	52.5	20.3	1.2	15	2100	35	350	2.8	29.3	HCDB/2H1406+MA3000****

$U_{N,85℃}$=600Vd.c.; $U_{N,105℃}$=420Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
2.0	32.0	18.0	9.0	27.5	-	0.8	65	130	10	100	44.1	2.8	HCDB/1U2004+B01000****
3.0	32.0	20.0	11.0	27.5	-	0.8	65	195	10	100	29.4	3.6	HCDB/1U3004+B01000****
4.0	32.0	20.0	11.0	27.5	-	0.8	65	260	10	100	22.1	4.3	HCDB/1U4004+B01000****
5.0	32.0	22.0	13.0	27.5	-	0.8	65	325	10	100	17.6	4.9	HCDB/1U5004+B01000****
6.0	32.0	25.0	14.0	27.5	-	0.8	65	390	10	100	14.7	5.5	HCDB/1U6004+B01000****
7.0	32.0	25.0	14.0	27.5	-	0.8	65	455	10	100	12.6	6.2	HCDB/1U7004+B01000****
8.0	32.0	28.0	14.0	27.5	-	0.8	65	520	10	100	11	6.7	HCDB/1U8004+B01000****
9.0	32.0	30.0	16.0	27.5	-	0.8	65	585	10	100	9.8	7.4	HCDB/1U9004+B01000****
10.0	32.0	30.0	16.0	27.5	-	0.8	65	650	10	100	8.8	7.8	HCDB/1U1005+B01000****
11.0	32.0	33.0	18.0	27.5	-	0.8	65	715	10	100	8	8.2	HCDB/1U1105+B01000****
15.0	32.0	37.0	22.0	27.5	-	0.8	65	975	10	100	5.9	10.3	HCDB/1U1505+B01000****
20.0	42.0	40.0	20.0	37.5	-	1	30	600	20	175	8.1	9.5	HCDB/1U2005+F02000****
20.0	42.0	40.0	20.0	37.5	10.2	1	30	600	20	175	7.3	10	HCDB/1U2005+FB2000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=600Vd.c.; $U_{N,105℃}$=420Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
25.0	42.0	44.0	24.0	37.5	-	1	30	750	20	175	6.5	11.5	HCDB/1U2505+F02000****
25.0	42.0	44.0	24.0	37.5	10.2	1	30	750	20	175	5.7	12.3	HCDB/1U2505+FB2000****
30.0	42.0	44.0	24.0	37.5	-	1	30	900	20	175	5.4	12.6	HCDB/1U3005+F02000****
30.0	42.0	44.0	24.0	37.5	10.2	1	30	900	20	175	4.7	13.6	HCDB/1U3005+FB2000****
35.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1050	20	175	4.6	14.7	HCDB/1U3505+FA3000****
40.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1200	20	175	4	15.8	HCDB/1U4005+FA3000****
45.0	42.0	46.0	35.0	37.5	20.3	1.2	30	1350	20	175	3.6	17.7	HCDB/1U4505+FA3000****
50.0	42.0	50.0	35.0	37.5	20.3	1.2	30	1500	20	175	3.2	19.3	HCDB/1U5005+FA3000****
55.0	42.0	50.0	35.0	37.5	20.3	1.2	30	1650	20	175	2.9	20.2	HCDB/1U5505+FA3000****
60.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1800	20	175	2.7	22.9	HCDB/1U6005+FA3000****
65.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1950	20	175	2.5	23.8	HCDB/1U6505+FA3000****
70.0	42.0	55.0	40.0	37.5	20.3	1.2	30	2100	20	175	2.3	24.7	HCDB/1U7005+FA3000****
75.0	42.0	60.0	45.0	37.5	20.3	1.2	30	2250	20	175	2.2	27.5	HCDB/1U7505+FA3000****
80.0	42.0	60.0	45.0	37.5	20.3	1.2	30	2400	20	175	2	28.4	HCDB/1U8005+FA3000****
85.0	42.0	60.0	45.0	37.5	20.3	1.2	30	2550	20	175	1.9	29.2	HCDB/1U8505+FA3000****
50.0	57.5	45.0	25.0	52.5	10.2	1.2	15	750	35	350	6.8	12.7	HCDB/1U5005+MB3000****
55.0	57.5	45.0	30.0	52.5	20.3	1.2	15	825	35	350	6.2	14.2	HCDB/1U5505+MA3000****
60.0	57.5	45.0	30.0	52.5	20.3	1.2	15	900	35	350	5.6	14.8	HCDB/1U6005+MA3000****
65.0	57.5	45.0	30.0	52.5	20.3	1.2	15	975	35	350	5.2	16.9	HCDB/1U6505+MA3000****
70.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1050	35	350	4.8	17.6	HCDB/1U7005+MA3000****
75.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1125	35	350	4.5	18.2	HCDB/1U7505+MA3000****
80.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1200	35	350	4.2	21.2	HCDB/1U8005+MA3000****
90.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1350	35	350	4	21.9	HCDB/1U9005+MA3000****
100.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1500	35	350	3.8	22.5	HCDB/1U1006+MA3000****
110.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1650	35	350	3.4	23.7	HCDB/1U1106+MA3000****
120.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1800	35	350	3.1	24.9	HCDB/1U1206+MA3000****
130.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1950	35	350	2.8	27.5	HCDB/1U1306+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=700Vd.c.; $U_{N,105℃}$=500Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
2.0	32.0	18.0	9.0	27.5	-	0.8	65	130	10	100	44.1	2.8	HCDB/1V2004+B01000****
3.0	32.0	20.0	11.0	27.5	-	0.8	65	195	10	100	29.4	3.6	HCDB/1V3004+B01000****
4.0	32.0	22.0	13.0	27.5	-	0.8	65	260	10	100	22.1	4.3	HCDB/1V4004+B01000****
5.0	32.0	25.0	13.0	27.5	-	0.8	65	325	10	100	17.6	4.9	HCDB/1V5004+B01000****
6.0	32.0	28.0	14.0	27.5	-	0.8	65	390	10	100	14.7	5.5	HCDB/1V6004+B01000****
7.0	32.0	30.0	16.0	27.5	-	0.8	65	455	10	100	12.6	6.2	HCDB/1V7004+B01000****
8.0	32.0	30.0	16.0	27.5	-	0.8	65	520	10	100	11	6.7	HCDB/1V8004+B01000****
10.0	32.0	33.0	18.0	27.5	-	0.8	65	650	10	100	8.8	7.8	HCDB/1V1005+B01000****
15.0	32.0	37.0	22.0	27.5	-	0.8	65	975	10	100	5.9	10.3	HCDB/1V1505+B01000****
20.0	42.0	40.0	20.0	37.5	-	1	30	600	20	175	8.1	9.5	HCDB/1V2005+F02000****
20.0	42.0	40.0	20.0	37.5	10.2	1	30	600	20	175	7.3	9.9	HCDB/1V2005+FB2000****
22.0	42.0	40.0	20.0	37.5	-	1	30	660	20	175	7.3	9.9	HCDB/1V2205+F02000****
25.0	42.0	44.0	24.0	37.5	-	1	30	750	20	175	6.5	11.5	HCDB/1V2505+F02000****
25.0	42.0	44.0	24.0	37.5	10.2	1	30	750	20	175	5.6	12.5	HCDB/1V2505+FB2000****
30.0	42.0	44.0	24.0	37.5	-	1	30	900	20	175	5.4	12.6	HCDB/1V3005+F02000****
30.0	42.0	44.0	24.0	37.5	10.2	1	30	900	20	175	4.6	13.7	HCDB/1V3005+FB2000****
35.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1050	20	175	4.6	14.7	HCDB/1V3505+FA3000****
40.0	42.0	45.0	30.0	37.5	20.3	1.2	30	1200	20	175	4	15.8	HCDB/1V4005+FA3000****
45.0	42.0	46.0	35.0	37.5	20.3	1.2	30	1350	20	175	3.6	17.7	HCDB/1V4505+FA3000****
50.0	42.0	50.0	35.0	37.5	20.3	1.2	30	1500	20	175	3.2	19.3	HCDB/1V5005+FA3000****
55.0	42.0	50.0	35.0	37.5	20.3	1.2	30	1650	20	175	2.9	20.2	HCDB/1V5505+FA3000****
60.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1800	20	175	2.7	22.9	HCDB/1V6005+FA3000****
65.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1950	20	175	2.5	23.8	HCDB/1V6505+FA3000****
70.0	42.0	55.0	40.0	37.5	20.3	1.2	30	2100	20	175	2.3	24.7	HCDB/1V7005+FA3000****
75.0	42.0	60.0	45.0	37.5	20.3	1.2	30	2250	20	175	2.2	27.5	HCDB/1V7505+FA3000****
80.0	42.0	60.0	45.0	37.5	20.3	1.2	30	2400	20	175	2	28.4	HCDB/1V8005+FA3000****
85.0	42.0	60.0	45.0	37.5	20.3	1.2	30	2550	20	175	1.9	29.2	HCDB/1V8505+FA3000****
50.0	57.5	45.0	25.0	52.5	10.2	1.2	15	750	35	350	6.8	12.7	HCDB/1V5005+MB3000****
55.0	57.5	45.0	30.0	52.5	20.3	1.2	15	825	35	350	6.2	14.2	HCDB/1V5505+MA3000****
60.0	57.5	45.0	30.0	52.5	20.3	1.2	15	900	35	350	5.6	14.8	HCDB/1V6005+MA3000****
65.0	57.5	50.0	35.0	52.5	20.3	1.2	15	975	35	350	5.2	16.9	HCDB/1V6505+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=700Vd.c.; $U_{N,105℃}$=500Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
70.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1050	35	350	4.8	17.6	HCDB/1V7005+MA3000****
75.0	57.5	50.0	35.0	52.5	20.3	1.2	15	1125	35	350	4.5	18.2	HCDB/1V7505+MA3000****
80.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1200	35	350	4.2	21.2	HCDB/1V8005+MA3000****
85.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1275	35	350	4	21.9	HCDB/1V8505+MA3000****
90.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1350	35	350	3.8	22.5	HCDB/1V9005+MA3000****
100.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1500	35	350	3.4	23.7	HCDB/1V1006+MA3000****
110.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1650	35	350	3.1	24.9	HCDB/1V1106+MA3000****
120.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1800	35	350	2.8	27.5	HCDB/1V1206+MA3000****
130.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1950	35	350	2.6	28.6	HCDB/1V1306+MA3000****

$U_{N,85℃}$=800Vd.c.; $U_{N,105℃}$=560Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
1.5	32.0	18.0	9.0	27.5	-	0.8	65	98	10	95	52.6	2.6	HCDB/2K1504+B01000****
2.0	32.0	20.0	11.0	27.5	-	0.8	65	130	10	95	39.5	3.2	HCDB/2K2004+B01000****
3.0	32.0	22.0	13.0	27.5	-	0.8	65	195	10	95	26.3	3.9	HCDB/2K3004+B01000****
4.0	32.0	25.0	13.0	27.5	-	0.8	65	260	10	95	19.7	4.6	HCDB/2K4004+B01000****
5.0	32.0	25.0	14.0	27.5	-	0.8	65	325	10	95	15.8	5.3	HCDB/2K5004+B01000****
6.0	32.0	30.0	16.0	27.5	-	0.8	65	390	10	95	13.2	6.1	HCDB/2K6004+B01000****
7.0	32.0	30.0	16.0	27.5	-	0.8	65	455	10	95	11.3	6.9	HCDB/2K7004+B01000****
8.0	32.0	33.0	18.0	27.5	-	0.8	65	520	10	95	9.9	7.4	HCDB/2K8004+B01000****
9.0	32.0	33.0	18.0	27.5	-	0.8	65	585	10	95	8.8	8.4	HCDB/2K9004+B01000****
10.0	32.0	37.0	22.0	27.5	-	0.8	65	650	10	95	7.9	8.9	HCDB/2K1005+B01000****
12.0	32.0	37.0	22.0	27.5	-	0.8	65	780	10	95	6.6	9.8	HCDB/2K1205+B01000****
12.0	42.0	33.0	18.0	37.5	-	1	30	360	18	160	12	7.1	HCDB/2K1205+F02000****
15.0	42.0	40.0	20.0	37.5	-	1	30	450	18	160	9.6	8.7	HCDB/2K1505+F02000****
15.0	42.0	40.0	20.0	37.5	10.2	1	30	450	18	160	8.7	9.2	HCDB/2K1505+FB2000****
20.0	42.0	44.0	24.0	37.5	-	1	30	600	18	160	7.2	10.9	HCDB/2K2005+F02000****
20.0	42.0	44.0	24.0	37.5	10.2	1	30	600	18	160	6.4	11.7	HCDB/2K2005+FB2000****
25.0	42.0	44.0	24.0	37.5	-	1	30	750	18	160	5.8	12.2	HCDB/2K2505+F02000****
25.0	42.0	44.0	24.0	37.5	10.2	1	30	750	18	160	5	13.0	HCDB/2K2505+FB2000****
30.0	42.0	45.0	30.0	37.5	20.3	1.2	30	900	18	160	4.8	14.4	HCDB/2K3005+FA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=800Vd.c.; $U_{N,105℃}$=560Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
35.0	42.0	46.0	35.0	37.5	20.3	1.2	30	1050	18	160	4.1	16.5	HCDB/2K3505+FA3000****
40.0	42.0	50.0	35.0	37.5	20.3	1.2	30	1200	18	160	3.6	18.2	HCDB/2K4005+FA3000****
45.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1350	18	160	3.2	20.9	HCDB/2K4505+FA3000****
50.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1500	18	160	2.9	22.1	HCDB/2K5005+FA3000****
55.0	42.0	55.0	40.0	37.5	20.3	1.2	30	1650	18	160	2.6	23.1	HCDB/2K5505+FA3000****
60.0	42.0	60.0	45.0	37.5	20.3	1.2	30	1800	18	160	2.4	26.0	HCDB/2K6005+FA3000****
65.0	42.0	60.0	45.0	37.5	20.3	1.2	30	1950	18	160	2.2	27.0	HCDB/2K6505+FA3000****
50.0	57.5	50.0	35.0	52.5	20.3	1.2	15	750	33	320	6.1	14.3	HCDB/2K5005+MA3000****
55.0	57.5	50.0	35.0	52.5	20.3	1.2	15	825	33	320	5.5	16.5	HCDB/2K5505+MA3000****
60.0	57.5	50.0	35.0	52.5	20.3	1.2	15	900	33	320	5	17.2	HCDB/2K6005+MA3000****
65.0	57.5	55.0	45.0	52.5	20.3	1.2	15	975	33	320	4.7	17.9	HCDB/2K6505+MA3000****
70.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1050	33	320	4.3	21.0	HCDB/2K7005+MA3000****
75.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1125	33	320	4	21.7	HCDB/2K7505+MA3000****
80.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1200	33	320	3.8	22.4	HCDB/2K8005+MA3000****
85.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1275	33	320	3.6	23.1	HCDB/2K8505+MA3000****
90.0	57.5	55.0	45.0	52.5	20.3	1.2	15	1350	33	320	3.4	23.8	HCDB/2K9005+MA3000****
100.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1500	33	320	3	26.5	HCDB/2K1006+MA3000****
110.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1650	33	320	2.8	27.8	HCDB/2K1106+MA3000****

$U_{N,85℃}$=900Vd.c.; $U_{N,105℃}$=630Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
1.0	32.0	18.0	9.0	27.5	-	0.8	70	70	9	90	69.8	2.3	HCDB/1X1004+B01000****
1.5	32.0	20.0	11.0	27.5	-	0.8	70	105	9	90	46.5	2.9	HCDB/1X1504+B01000****
2.0	32.0	20.0	11.0	27.5	-	0.8	70	140	9	90	34.9	3.4	HCDB/1X2004+B01000****
2.5	32.0	22.0	13.0	27.5	-	0.8	70	175	9	90	27.9	3.8	HCDB/1X2504+B01000****
3.0	32.0	22.0	13.0	27.5	-	0.8	70	210	9	90	23.3	4.4	HCDB/1X3004+B01000****
4.0	32.0	28.0	14.0	27.5	-	0.8	70	280	9	90	17.4	5.1	HCDB/1X4004+B01000****
5.0	32.0	30.0	16.0	27.5	-	0.8	70	350	9	90	14	5.9	HCDB/1X5004+B01000****
6.0	32.0	33.0	18.0	27.5	-	0.8	70	420	9	90	11.6	6.8	HCDB/1X6004+B01000****
7.0	32.0	33.0	18.0	27.5	-	0.8	70	490	9	90	10	7.3	HCDB/1X7004+B01000****
8.0	32.0	37.0	22.0	27.5	-	0.8	70	560	9	90	8.7	8.5	HCDB/1X8004+B01000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=900Vd.c.; $U_{N,105℃}$=630Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
9.0	32.0	37.0	22.0	27.5	-	0.8	70	630	9	90	7.8	9.0	HCDB/1X9004+B01000****
10.0	42.0	33.0	18.0	37.5	-	1	35	350	17	150	12.8	6.9	HCDB/1X1005+F02000****
12.0	42.0	37.0	22.0	37.5	-	1	35	420	17	150	10.6	8.2	HCDB/1X1205+F02000****
15.0	42.0	44.0	24.0	37.5	-	1	35	525	17	150	8.5	10.0	HCDB/1X1505+F02000****
15.0	42.0	44.0	24.0	37.5	10.2	1	35	525	17	150	8.5	10.0	HCDB/1X1505+FB2000****
18.0	42.0	44.0	24.0	37.5	-	1	35	630	17	150	7.7	10.6	HCDB/1X1805+F02000****
18.0	42.0	44.0	24.0	37.5	10.2	1	35	630	17	150	7.1	11.0	HCDB/1X1805+FB2000****
20.0	42.0	45.0	30.0	37.5	10.2	1.2	35	700	17	150	6.2	11.8	HCDB/1X2005+FB3000****
25.0	42.0	45.0	30.0	37.5	20.3	1.2	35	875	17	150	5.1	14.0	HCDB/1X2505+FA3000****
30.0	42.0	46.0	35.0	37.5	20.3	1.2	35	1050	17	150	4.3	16.3	HCDB/1X3005+FA3000****
34.0	42.0	50.0	35.0	37.5	20.3	1.2	35	1190	17	150	3.8	17.9	HCDB/1X3405+FA3000****
40.0	42.0	55.0	40.0	37.5	20.3	1.2	35	1400	17	150	3.2	21.0	HCDB/1X4005+FA3000****
45.0	42.0	55.0	40.0	37.5	20.3	1.2	35	1575	17	150	2.8	22.3	HCDB/1X4505+FA3000****
50.0	42.0	60.0	45.0	37.5	20.3	1.2	35	1750	17	150	2.6	25.2	HCDB/1X5005+FA3000****
55.0	42.0	60.0	45.0	37.5	20.3	1.2	35	1925	17	150	2.3	26.5	HCDB/1X5505+FA3000****
35.0	57.5	45.0	30.0	52.5	20.3	1.2	15	525	30	300	7.6	12.7	HCDB/1X3505+MA3000****
40.0	57.5	50.0	35.0	52.5	20.3	1.2	15	600	30	300	6.7	14.9	HCDB/1X4005+MA3000****
45.0	57.5	50.0	35.0	52.5	20.3	1.2	15	675	30	300	5.9	15.8	HCDB/1X4505+MA3000****
50.0	57.5	50.0	35.0	52.5	20.3	1.2	15	750	30	300	5.4	16.7	HCDB/1X5005+MA3000****
55.0	57.5	55.0	45.0	52.5	20.3	1.2	15	825	30	300	4.9	19.8	HCDB/1X5505+MA3000****
60.0	57.5	55.0	45.0	52.5	20.3	1.2	15	900	30	300	4.5	20.7	HCDB/1X6005+MA3000****
65.0	57.5	55.0	45.0	52.5	20.3	1.2	15	975	30	300	4.1	21.5	HCDB/1X6505+MA3000****
70.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1050	30	300	3.8	22.3	HCDB/1X7005+MA3000****
75.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1125	30	300	3.6	24.4	HCDB/1X7505+MA3000****
80.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1200	30	300	3.3	25.2	HCDB/1X8005+MA3000****
85.0	57.5	65.0	45.0	52.5	20.3	1.2	15	1275	30	300	3.1	26.0	HCDB/1X8505+MA3000****

Notes: 1) “+” means capacitance tolerance,J=±5%,K=±10%;
2)“****” means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=1000Vd.c.; $U_{N,105℃}$=700Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
1.0	32.0	18.0	9.0	27.5	-	0.8	75	75	8	80	57.9	2.5	HCDB/3A1004+B01000****
1.5	32.0	20.0	11.0	27.5	-	0.8	75	113	8	80	38.6	3.1	HCDB/3A1504+B01000****
2.0	32.0	22.0	13.0	27.5	-	0.8	75	150	8	80	29	3.7	HCDB/3A2004+B01000****
2.5	32.0	25.0	13.0	27.5	-	0.8	75	188	8	80	23.2	4.3	HCDB/3A2504+B01000****
3.0	32.0	25.0	14.0	27.5	-	0.8	75	225	8	80	19.3	4.8	HCDB/3A3004+B01000****
4.0	32.0	30.0	16.0	27.5	-	0.8	75	300	8	80	14.5	5.8	HCDB/3A4004+B01000****
5.0	32.0	33.0	18.0	27.5	-	0.8	75	375	8	80	11.6	6.8	HCDB/3A5004+B01000****
5.5	32.0	33.0	18.0	27.5	-	0.8	75	413	8	80	10.5	7.1	HCDB/3A5504+B01000****
7.0	32.0	37.0	22.0	27.5	-	0.8	75	525	8	80	8.3	8.7	HCDB/3A7004+B01000****
8.0	32.0	37.0	22.0	27.5	-	0.8	75	600	8	80	7.2	9.3	HCDB/3A8004+B01000****
8.0	42.0	33.0	18.0	37.5	-	1	37	296	15	140	13.5	6.7	HCDB/3A8004+F02000****
10.0	42.0	40.0	20.0	37.5	-	1	37	370	15	140	10.8	8.2	HCDB/3A1005+F02000****
10.0	42.0	40.0	20.0	37.5	10.2	1	37	370	15	140	9.7	8.7	HCDB/3A1005+FB2000****
15.0	42.0	44.0	24.0	37.5	-	1	37	555	15	140	7.2	10.9	HCDB/3A1505+F02000****
15.0	42.0	44.0	24.0	37.5	10.2	1	37	555	15	140	6.3	11.8	HCDB/3A1505+FB2000****
20.0	42.0	45.0	30.0	37.5	20.3	1.2	37	740	15	140	5.4	13.6	HCDB/3A2005+FA3000****
24.0	42.0	46.0	35.0	37.5	20.3	1.2	37	888	15	140	4.5	15.8	HCDB/3A2405+FA3000****
25.0	42.0	50.0	35.0	37.5	20.3	1.2	37	925	15	140	4.3	16.6	HCDB/3A2505+FA3000****
30.0	42.0	55.0	40.0	37.5	20.3	1.2	37	1110	15	140	3.6	19.7	HCDB/3A3005+FA3000****
35.0	42.0	55.0	40.0	37.5	20.3	1.2	37	1295	15	140	3.1	21.3	HCDB/3A3505+FA3000****
40.0	42.0	60.0	45.0	37.5	20.3	1.2	37	1480	15	140	2.7	24.5	HCDB/3A4005+FA3000****
30.0	57.5	45.0	30.0	52.5	20.3	1.2	17	510	28	280	7.7	12.7	HCDB/3A3005+MA3000****
35.0	57.5	50.0	35.0	52.5	20.3	1.2	17	595	28	280	6.6	15.0	HCDB/3A3505+MA3000****
40.0	57.5	50.0	35.0	52.5	20.3	1.2	17	680	28	280	5.8	16.1	HCDB/3A4005+MA3000****
45.0	57.5	55.0	45.0	52.5	20.3	1.2	17	765	28	280	5.1	19.3	HCDB/3A4505+MA3000****
50.0	57.5	55.0	45.0	52.5	20.3	1.2	17	850	28	280	4.6	20.3	HCDB/3A5005+MA3000****
55.0	57.5	55.0	45.0	52.5	20.3	1.2	17	935	28	280	4.2	21.3	HCDB/3A5505+MA3000****
60.0	57.5	65.0	45.0	52.5	20.3	1.2	17	1020	28	280	3.8	23.5	HCDB/3A6005+MA3000****
65.0	57.5	65.0	45.0	52.5	20.3	1.2	17	1105	28	280	3.6	24.5	HCDB/3A6505+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=1100Vd.c.; $U_{N,105℃}$=770Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4}) 1kHz	tanδ(×10^{-4}) 10kHz	ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
1.0	32.0	20.0	11.0	27.5	-	0.8	75	75	8	80	52.5	2.7	HCDB/1M1004+B01000****
1.5	32.0	22.0	13.0	27.5	-	0.8	75	113	8	80	35	3.4	HCDB/1M1504+B01000****
2.0	32.0	25.0	13.0	27.5	-	0.8	75	150	8	80	26.2	4.0	HCDB/1M2004+B01000****
2.5	32.0	28.0	14.0	27.5	-	0.8	75	188	8	80	21	4.6	HCDB/1M2504+B01000****
3.0	32.0	30.0	16.0	27.5	-	0.8	75	225	8	80	17.5	5.3	HCDB/1M3004+B01000****
4.0	32.0	33.0	18.0	27.5	-	0.8	75	300	8	80	13.1	6.4	HCDB/1M4004+B01000****
5.0	32.0	37.0	22.0	27.5	-	0.8	75	375	8	80	10.5	7.7	HCDB/1M5004+B01000****
6.0	32.0	37.0	22.0	27.5	-	0.8	75	450	8	80	8.7	8.5	HCDB/1M6004+B01000****
6.5	42.0	33.0	18.0	37.5	-	1	38	247	15	140	15.1	6.4	HCDB/1M6504+F02000****
7.0	42.0	40.0	20.0	37.5	-	1	38	266	15	140	14	7.2	HCDB/1M7004+F02000****
7.0	42.0	40.0	20.0	37.5	10.2	1	38	266	15	140	13.2	7.5	HCDB/1M7004+FB2000****
8.0	42.0	37.0	22.0	37.5	-	1	38	304	15	140	12.2	7.7	HCDB/1M8004+F02000****
8.0	42.0	37.0	22.0	37.5	10.2	1	38	304	15	140	11.4	8.0	HCDB/1M8004+FB2000****
9.0	42.0	37.0	22.0	37.5	-	1	38	342	15	140	10.9	8.1	HCDB/1M9004+F02000****
9.0	42.0	37.0	22.0	37.5	10.2	1	38	342	15	140	9.8	8.5	HCDB/1M9004+FB2000****
10.0	42.0	44.0	24.0	37.5	-	1	38	380	15	140	9.8	9.3	HCDB/1M1005+F02000****
10.0	42.0	44.0	24.0	37.5	10.2	1	38	380	15	140	8.9	9.7	HCDB/1M1005+FB2000****
12.0	42.0	44.0	24.0	37.5	-	1	38	456	15	140	8.2	10.2	HCDB/1M1205+F02000****
12.0	42.0	44.0	24.0	37.5	10.2	1	38	456	15	140	7.3	10.8	HCDB/1M1205+FB2000****
15.0	42.0	45.0	30.0	37.5	20.3	1.2	38	570	15	140	6.5	12.4	HCDB/1M1505+FA3000****
18.0	42.0	46.0	35.0	37.5	20.3	1.2	38	684	15	140	5.4	14.4	HCDB/1M1805+FA3000****
20.0	42.0	50.0	35.0	37.5	20.3	1.2	38	760	15	140	4.9	15.6	HCDB/1M2005+FA3000****
25.0	42.0	55.0	40.0	37.5	20.3	1.2	38	950	15	140	3.9	18.9	HCDB/1M2505+FA3000****
28.0	42.0	55.0	40.0	37.5	20.3	1.2	38	1064	15	140	3.5	20.0	HCDB/1M2805+FA3000****
30.0	42.0	60.0	45.0	37.5	20.3	1.2	38	1140	15	140	3.3	22.3	HCDB/1M3005+FA3000****
25.0	57.5	50.0	35.0	52.5	20.3	1.2	18	450	28	280	8.4	12.2	HCDB/1M2505+MA3000****
30.0	57.5	50.0	35.0	52.5	20.3	1.2	18	540	28	280	7	14.6	HCDB/1M3005+MA3000****
35.0	57.5	55.0	45.0	52.5	20.3	1.2	18	630	28	280	6	17.8	HCDB/1M3505+MA3000****
40.0	57.5	55.0	45.0	52.5	20.3	1.2	18	720	28	280	5.2	19.1	HCDB/1M4005+MA3000****
45.0	57.5	55.0	45.0	52.5	20.3	1.2	18	810	28	280	4.6	20.2	HCDB/1M4505+MA3000****
50.0	57.5	65.0	45.0	52.5	20.3	1.2	18	900	28	280	4.2	22.6	HCDB/1M5005+MA3000****
55.0	57.5	65.0	45.0	52.5	20.3	1.2	18	990	28	280	3.8	23.7	HCDB/1M5505+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=1200Vd.c.; $U_{N,105℃}$=850Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
1.0	32.0	20.0	11.0	27.5	-	0.8	90	90	8	60	48	2.8	HCDB/3L1004+B01000****
1.5	32.0	25.0	13.0	27.5	-	0.8	90	135	8	60	32	3.6	HCDB/3L1504+B01000****
2.0	32.0	25.0	14.0	27.5	-	0.8	90	180	8	60	24	4.3	HCDB/3L2004+B01000****
3.0	32.0	30.0	16.0	27.5	-	0.8	90	270	8	60	16	5.8	HCDB/3L3004+B01000****
3.5	32.0	33.0	18.0	27.5	-	0.8	90	315	8	60	13.7	6.3	HCDB/3L3504+B01000****
4.0	32.0	33.0	18.0	27.5	-	0.8	90	360	8	60	12	7.2	HCDB/3L4004+B01000****
5.0	32.0	37.0	22.0	27.5	-	0.8	90	450	8	60	9.6	8.1	HCDB/3L5004+B01000****
5.0	42.0	33.0	18.0	37.5	-	1	45	225	13	100	17.9	5.8	HCDB/3L5004+F02000****
6.0	42.0	40.0	20.0	37.5	-	1	45	270	13	100	14.9	7.0	HCDB/3L6004+F02000****
6.0	42.0	40.0	20.0	37.5	10.2	1	45	270	13	100	13.8	7.3	HCDB/3L6004+FB2000****
7.0	42.0	40.0	20.0	37.5	-	1	45	315	13	100	12.8	7.5	HCDB/3L7004+F02000****
7.0	42.0	40.0	20.0	37.5	10.2	1	45	315	13	100	11.9	7.9	HCDB/3L7004+FB2000****
8.0	42.0	44.0	24.0	37.5	-	1	45	360	13	100	11.2	8.7	HCDB/3L8004+F02000****
8.0	42.0	44.0	24.0	37.5	10.2	1	45	360	13	100	10.3	9.1	HCDB/3L8004+FB2000****
9.0	42.0	44.0	24.0	37.5	-	1	45	405	13	100	9.9	9.3	HCDB/3L9004+F02000****
9.0	42.0	44.0	24.0	37.5	10.2	1	45	405	13	100	8.9	9.8	HCDB/3L9004+FB2000****
10.0	42.0	44.0	24.0	37.5	-	1	45	450	13	100	8.9	9.8	HCDB/3L1005+F02000****
10.0	42.0	44.0	24.0	37.5	10.2	1	45	450	13	100	8.0	10.5	HCDB/3L1005+FB2000****
12.0	42.0	45.0	30.0	37.5	10.2	1.2	45	540	13	100	7.5	11.6	HCDB/3L1205+FB3000****
15.0	42.0	46.0	35.0	37.5	20.3	1.2	45	675	13	100	6	13.8	HCDB/3L1505+FA3000****
18.0	42.0	50.0	35.0	37.5	20.3	1.2	45	810	13	100	5	15.5	HCDB/3L1805+FA3000****
20.0	42.0	55.0	40.0	37.5	20.3	1.2	45	900	13	100	4.5	17.7	HCDB/3L2005+FA3000****
25.0	42.0	60.0	45.0	37.5	20.3	1.2	45	1125	13	100	3.6	21.3	HCDB/3L2505+FA3000****
28.0	42.0	60.0	45.0	37.5	20.3	1.2	45	1260	13	100	3.2	22.5	HCDB/3L2805+FA3000****
20.0	57.5	45.0	30.0	52.5	20.3	1.2	23	460	24	200	9.6	11.4	HCDB/3L2005+MA3000****
25.0	57.5	50.0	35.0	52.5	20.3	1.2	23	575	24	200	7.6	14.0	HCDB/3L2505+MA3000****
30.0	57.5	55.0	45.0	52.5	20.3	1.2	23	690	24	200	6.4	17.3	HCDB/3L3005+MA3000****
35.0	57.5	55.0	45.0	52.5	20.3	1.2	23	805	24	200	5.5	18.7	HCDB/3L3505+MA3000****
40.0	57.5	65.0	45.0	52.5	20.3	1.2	23	920	24	200	4.8	21.1	HCDB/3L4005+MA3000****
45.0	57.5	65.0	45.0	52.5	20.3	1.2	23	1035	24	200	4.2	22.4	HCDB/3L4505+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=1300Vd.c.; $U_{N,105℃}$=910Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
0.6	32.0	20.0	11.0	27.5	-	0.8	90	54	8	60	68.2	2.4	HCDB/2M6003+B01000****
1.5	32.0	28.0	14.0	27.5	-	0.8	90	135	8	60	27.3	4.1	HCDB/2M1504+B01000****
2.5	32.0	33.0	18.0	27.5	-	0.8	90	225	8	60	16.4	5.7	HCDB/2M2504+B01000****
3.5	32.0	37.0	22.0	27.5	-	0.8	90	315	8	60	11.7	7.3	HCDB/2M3504+B01000****
4.0	42.0	33.0	18.0	37.5	-	1	45	180	13	100	19.1	5.7	HCDB/2M4004+F02000****
4.5	42.0	40.0	20.0	37.5	-	1	45	203	13	100	17	6.5	HCDB/2M4504+F02000****
4.5	42.0	40.0	20.0	37.5	10.2	1	45	203	13	100	16	6.7	HCDB/2M4504+FB2000****
5.0	42.0	40.0	20.0	37.5	-	1	45	225	13	100	15.3	6.9	HCDB/2M5004+F02000****
5.0	42.0	40.0	20.0	37.5	10.2	1	45	225	13	100	14.2	7.3	HCDB/2M5004+FB2000****
6.0	42.0	44.0	24.0	37.5	-	1	45	270	13	100	12.7	8.2	HCDB/2M6004+F02000****
6.0	42.0	44.0	24.0	37.5	10.2	1	45	270	13	100	11.6	8.5	HCDB/2M6004+FB2000****
7.0	42.0	44.0	24.0	37.5	-	1	45	315	13	100	10.9	8.9	HCDB/2M7004+F02000****
7.0	42.0	44.0	24.0	37.5	10.2	1	45	315	13	100	9.8	9.3	HCDB/2M7004+FB2000****
8.0	42.0	45.0	30.0	37.5	10.2	1.2	45	360	13	100	9.5	10.2	HCDB/2M8004+FB3000****
9.0	42.0	45.0	30.0	37.5	20.3	1.2	45	405	13	100	8.5	10.9	HCDB/2M9004+FA3000****
10.0	42.0	50.0	35.0	37.5	20.3	1.2	45	450	13	100	7.6	12.5	HCDB/2M1005+FA3000****
11.0	42.0	50.0	35.0	37.5	20.3	1.2	45	495	13	100	6.9	13.1	HCDB/2M1105+FA3000****
12.0	42.0	50.0	35.0	37.5	20.3	1.2	45	540	13	100	6.4	13.7	HCDB/2M1205+FA3000****
13.0	42.0	50.0	35.0	37.5	20.3	1.2	45	585	13	100	5.9	14.3	HCDB/2M1305+FA3000****
14.0	42.0	55.0	40.0	37.5	20.3	1.2	45	630	13	100	5.5	16.0	HCDB/2M1405+FA3000****
15.0	42.0	55.0	40.0	37.5	20.3	1.2	45	675	13	100	5.1	16.6	HCDB/2M1505+FA3000****
16.0	42.0	55.0	40.0	37.5	20.3	1.2	45	720	13	100	4.8	17.2	HCDB/2M1605+FA3000****
17.0	42.0	55.0	40.0	37.5	20.3	1.2	45	765	13	100	4.5	17.7	HCDB/2M1705+FA3000****
18.0	57.5	50.0	35.0	52.5	20.3	1.2	23	414	24	200	9.1	12.8	HCDB/2M1805+MA3000****
20.0	57.5	50.0	35.0	52.5	20.3	1.2	23	460	24	200	8.1	13.5	HCDB/2M2005+MA3000****
25.0	57.5	55.0	45.0	52.5	20.3	1.2	23	575	24	200	6.5	17.1	HCDB/2M2505+MA3000****
28.0	57.5	55.0	45.0	52.5	20.3	1.2	23	644	24	200	5.8	18.1	HCDB/2M2805+MA3000****
30.0	57.5	65.0	45.0	52.5	20.3	1.2	23	690	24	200	5.4	19.8	HCDB/2M3005+MA3000****
35.0	57.5	65.0	45.0	52.5	20.3	1.2	23	805	24	200	4.7	21.4	HCDB/2M3505+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

$U_{N,85℃}$=1400Vd.c.; $U_{N,105℃}$=980Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
0.8	32.0	22.0	13.0	27.5	-	0.8	100	80	8	60	47.6	2.9	HCDB/3M8003+B01000****
1.2	32.0	28.0	14.0	27.5	-	0.8	100	120	8	60	31.8	3.8	HCDB/3M1204+B01000****
1.5	32.0	30.0	16.0	27.5	-	0.8	100	150	8	60	25.4	4.4	HCDB/3M1504+B01000****
2.0	32.0	33.0	18.0	27.5	-	0.8	100	200	8	60	19.1	5.3	HCDB/3M2004+B01000****
2.2	32.0	33.0	18.0	27.5	-	0.8	100	220	8	60	17.3	5.6	HCDB/3M2204+B01000****
3.0	32.0	37.0	22.0	27.5	-	0.8	100	300	8	60	12.7	7.0	HCDB/3M3004+B01000****
3.3	32.0	37.0	22.0	27.5	-	0.8	100	330	8	60	11.5	7.4	HCDB/3M3304+B01000****
4.0	42.0	40.0	20.0	37.5	-	1	50	200	12	90	17.8	6.4	HCDB/3M4004+F02000****
4.0	42.0	40.0	20.0	37.5	10.2	1	50	200	12	90	16.9	6.7	HCDB/3M4004+FB2000****
4.5	42.0	40.0	20.0	37.5	-	1	50	225	12	90	15.8	6.8	HCDB/3M4504+F02000****
4.5	42.0	40.0	20.0	37.5	10.2	1	50	225	12	90	14.9	7.2	HCDB/3M4504+FB2000****
5.0	42.0	44.0	24.0	37.5	-	1	50	250	12	90	14.2	7.8	HCDB/3M5004+F02000****
5.0	42.0	44.0	24.0	37.5	10.2	1	50	250	12	90	13.1	8.2	HCDB/3M5004+FB2000****
5.5	42.0	44.0	24.0	37.5	-	1	50	275	12	90	12.9	8.1	HCDB/3M5504+F02000****
5.5	42.0	44.0	24.0	37.5	10.2	1	50	275	12	90	11.8	8.5	HCDB/3M5504+FB2000****
6.0	42.0	44.0	24.0	37.5	-	1	50	300	12	90	11.8	8.5	HCDB/3M6004+F02000****
6.0	42.0	44.0	24.0	37.5	10.2	1	50	300	12	90	10.9	9.0	HCDB/3M6004+FB2000****
7.0	42.0	45.0	30.0	37.5	10.2	1.2	50	350	12	90	10.2	9.9	HCDB/3M7004+FB3000****
7.5	42.0	45.0	30.0	37.5	10.2	1.2	50	375	12	90	9.5	10.3	HCDB/3M7504+FB3000****
8.0	42.0	45.0	30.0	37.5	10.2	1.2	50	400	12	90	8.9	10.6	HCDB/3M8004+FB3000****
8.5	42.0	45.0	30.0	37.5	20.3	1.2	50	425	12	90	8.4	10.9	HCDB/3M8504+FA3000****
9.0	42.0	46.0	35.0	37.5	20.3	1.2	50	450	12	90	7.9	12.0	HCDB/3M9004+FA3000****
10.0	42.0	46.0	35.0	37.5	20.3	1.2	50	500	12	90	7.1	12.6	HCDB/3M1005+FA3000****
11.0	42.0	50.0	35.0	37.5	20.3	1.2	50	550	12	90	6.5	13.6	HCDB/3M1105+FA3000****
12.0	42.0	55.0	40.0	37.5	20.3	1.2	50	600	12	90	5.9	15.4	HCDB/3M1205+FA3000****
15.0	42.0	60.0	45.0	37.5	20.3	1.2	50	750	12	90	4.7	18.5	HCDB/3M1505+FA3000****
16.0	42.0	60.0	45.0	37.5	20.3	1.2	50	800	12	90	4.4	19.1	HCDB/3M1605+FA3000****
18.0	42.0	60.0	45.0	37.5	20.3	1.2	50	900	12	90	3.9	20.3	HCDB/3M1805+FA3000****
12.0	57.5	45.0	30.0	52.5	20.3	1.2	25	300	22	180	12.6	9.9	HCDB/3M1205+MA3000****
16.0	57.5	50.0	35.0	52.5	20.3	1.2	25	400	22	180	9.5	12.5	HCDB/3M1605+MA3000****
20.0	57.5	55.0	45.0	52.5	20.3	1.2	25	500	22	180	7.6	15.8	HCDB/3M2005+MA3000****
25.0	57.5	55.0	45.0	52.5	20.3	1.2	25	625	22	180	6.1	17.7	HCDB/3M2505+MA3000****
30.0	57.5	65.0	45.0	52.5	20.3	1.2	25	750	22	180	5.1	20.5	HCDB/3M3005+MA3000****

Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

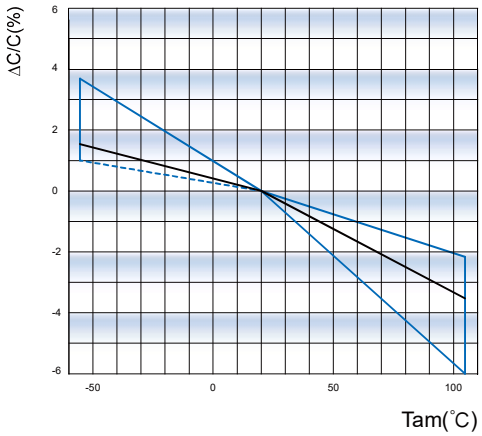
Technical Parameters

$U_{N,85℃}$=1500Vd.c.; $U_{N,105℃}$=1050Vd.c.													
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	dv/dt (V/μs)	Î(A)	tanδ(×10^{-4})		ESR@10kHz (mΩ)	I_{max}(A)	Ordering Information
									1kHz	10kHz			
0.8	32.0	22.0	13.0	27.5	-	0.8	100	80	8	60	44.6	3.0	HCDB/4M8003+B01000****
1.0	32.0	28.0	14.0	27.5	-	0.8	100	100	8	60	35.7	3.6	HCDB/4M1004+B01000****
1.5	32.0	33.0	18.0	27.5	-	0.8	100	150	8	60	23.8	4.7	HCDB/4M1504+B01000****
2.0	32.0	33.0	18.0	27.5	-	0.8	100	200	8	60	17.8	5.5	HCDB/4M2004+B01000****
2.5	32.0	37.0	22.0	27.5	-	0.8	100	250	8	60	14.3	6.6	HCDB/4M2504+B01000****
3.0	42.0	33.0	18.0	37.5	-	1	50	150	12	90	22.2	5.3	HCDB/4M3004+F02000****
4.0	42.0	40.0	20.0	37.5	-	1	50	200	12	90	16.6	6.6	HCDB/4M4004+F02000****
4.0	42.0	40.0	20.0	37.5	10.2	1	50	200	12	90	15.7	6.9	HCDB/4M4004+FB2000****
5.0	42.0	44.0	24.0	37.5	-	1	50	250	12	90	13.3	8.0	HCDB/4M5004+F02000****
5.0	42.0	44.0	24.0	37.5	10.2	1	50	250	12	90	12.4	8.3	HCDB/4M5004+FB2000****
5.5	42.0	44.0	24.0	37.5	-	1	50	275	12	90	12.1	8.4	HCDB/4M5504+F02000****
5.5	42.0	44.0	24.0	37.5	10.2	1	50	275	12	90	11.0	8.9	HCDB/4M5504+FB2000****
6.0	42.0	45.0	30.0	37.5	10.2	1.2	50	300	12	90	11.1	9.5	HCDB/4M6004+FB3000****
6.5	42.0	45.0	30.0	37.5	20.3	1.2	50	325	12	90	10.2	9.9	HCDB/4M6504+FA3000****
7.0	42.0	45.0	30.0	37.5	20.3	1.2	50	350	12	90	9.5	10.3	HCDB/4M7004+FA3000****
7.5	42.0	45.0	30.0	37.5	20.3	1.2	50	375	12	90	8.9	10.6	HCDB/4M7505+FA3000****
8.0	42.0	46.0	35.0	37.5	20.3	1.2	50	400	12	90	8.3	11.7	HCDB/4M8005+FA3000****
8.5	42.0	46.0	35.0	37.5	20.3	1.2	50	425	12	90	7.8	12.0	HCDB/4M8505+FA3000****
9.0	42.0	55.0	40.0	37.5	20.3	1.2	50	450	12	90	7.4	13.8	HCDB/4M9005+FA3000****
10.0	42.0	55.0	40.0	37.5	20.3	1.2	50	500	12	90	6.7	14.5	HCDB/4M1005+FA3000****
12.0	42.0	55.0	40.0	37.5	20.3	1.2	50	600	12	90	5.5	15.9	HCDB/4M1205+FA3000****
15.0	42.0	60.0	45.0	37.5	20.3	1.2	50	750	12	90	4.4	19.1	HCDB/4M1505+FA3000****
10.0	57.5	45.0	30.0	52.5	20.3	1.2	25	250	22	180	14.2	9.4	HCDB/4M1005+MA3000****
11.0	57.5	45.0	30.0	52.5	20.3	1.2	25	275	22	180	12.9	9.8	HCDB/4M1105+MA3000****
12.0	57.5	50.0	35.0	52.5	20.3	1.2	25	300	22	180	11.8	11.2	HCDB/4M1205+MA3000****
15.0	57.5	50.0	35.0	52.5	20.3	1.2	25	375	22	180	9.5	12.5	HCDB/4M1505+MA3000****
18.0	57.5	55.0	45.0	52.5	20.3	1.2	25	450	22	180	7.9	15.5	HCDB/4M1805+MA3000****
20.0	57.5	55.0	45.0	52.5	20.3	1.2	25	500	22	180	7.1	16.4	HCDB/4M2005+MA3000****
25.0	57.5	65.0	45.0	52.5	20.3	1.2	25	625	22	180	5.7	19.4	HCDB/4M2505+MA3000****

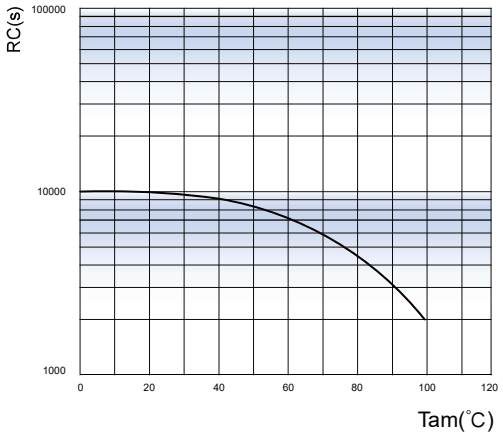
Notes: 1) "+" means capacitance tolerance,J=±5%,K=±10%;
2)"****" means lead form and packaging code (See table 1).

Technical Parameters

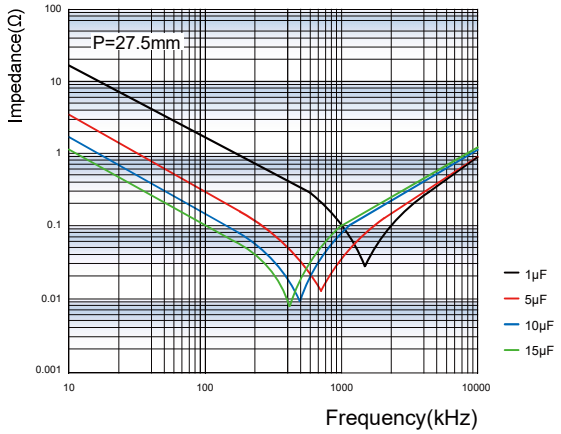
Capacitance versus temperature



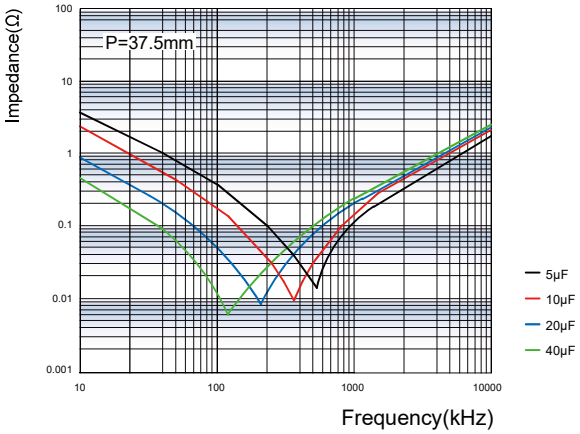
Insulation resistance versus temperature



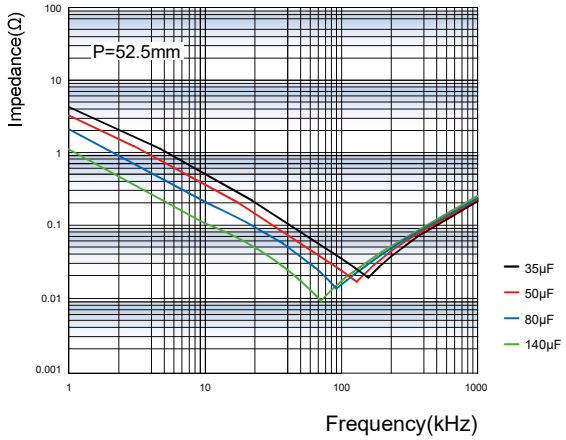
Impedance versus frequency



Impedance versus frequency



Impedance versus frequency



DC current versus temperature

