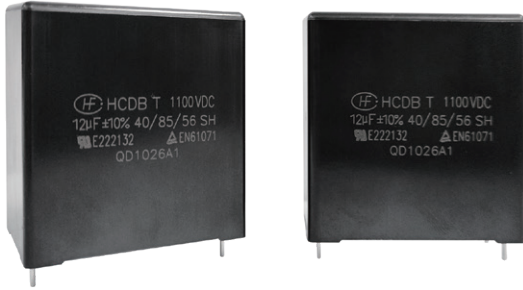


HCDB



DC-Link capacitor for PCB
(THB version, damp-heat resistant)



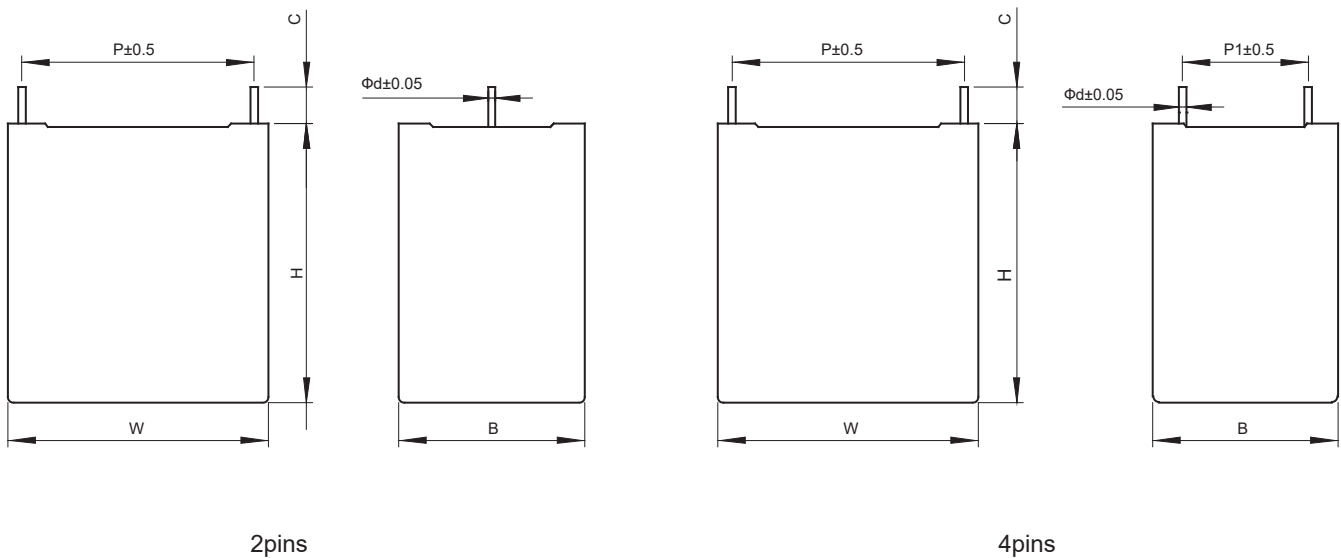
Features

- Metallized polypropylene film structure, good self-healing
- High ripple current capability
- Excellent long-term capacitance stability in harsh environment (such as high temperature and high humidity)
- Automotive grade (AEC-Q200 compliant)
- High-performance DC filtering applications (such as frequency converters, industrial and high-end power supplies, solar inverters, etc.)

Safety Approvals

	TUV	EN 61071:2017	0.6μF-140μF,±5%,±10%,500Vd.c.-1500Vd.c. 40/85/56,40/105/56 File No.: R 50516398
	UL	UL810	0.062μF-140μF,max 3000Vd.c. max 105°C File No.: E222132,CCN:CZDS2

Outline Drawing



Note: The dimensions of the product are in mm units.
Outline dimensions can be found in the Product Dimensions Table.

Specifications

Reference standard	GB/T 17702 (IEC 61071)
Rated voltage	500Vd.c.~1500Vd.c.
Capacitance range	0.6μF~140μF
Climatic category	40/85/56,40/105/56
Operating temperature	-40°C~105°C (85°C~105°C:decreasing factor 1.5% per °C for U _{N,85°C})
Capacitance tolerance	±5%(J),±10%(K)
Voltage proof	1.5U _N (10s,20°C±5°C)
Insulation resistance (IR×C _N)	≥10000s (20°C,100Vd.c.,60s)
Self inductance (L _s)	<1nH/mm
Dielectric dissipation factor (tanδ)	0.0002
Maximum peak current \hat{I} (A)	$\hat{I}=C \times dv/dt$
Peak Non-Repetitive Current	1.4 \hat{I} (1000times during the lifetime)
Over voltage	1.1U _N (30% of on -load duration/d)
	1.15 U _N (30min/d)
	1.2 U _N (5min/d)
	1.3 U _N (1min/d)
	1.5U _N (An overvoltage equal to 1.5U _N for 30ms is permitted 1000 times during the life of the capacitor)
Expected lifetime	100000h@U _N ,85°C,Θhs=85°C 8000h@U _N ,105°C,Θhs=105°C
Failure rate	≤300FIT@U _N ,85°C,Θhs=85°C
THB test	Temperature: 85±2°C; Humidity: 85±2%%RH; Voltage: U _N ; Duration: 1000h; Capacitance change: ΔC/C ≤10%; Δtanδ: ≤0.0200 (1kHz); Insulation resistance IR: ≥ 50% of the rated value

Ordering Information

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25									
H	C	D	B	/																	(x	x	x)								
Series code				DC rated voltage			Rated capacitance value		Capacitance tolerance			Pitch Lead Form		Diameter Internal code and packaging code			Internal code																
				<table border="1"> <tr><td>2H=500V</td></tr> <tr><td>1U=600V</td></tr> <tr><td>1V=700V</td></tr> <tr><td>2K=800V</td></tr> <tr><td>1X=900V</td></tr> <tr><td>3A=1000V</td></tr> <tr><td>1M=1100V</td></tr> <tr><td>3L=1200V</td></tr> <tr><td>2M=1300V</td></tr> <tr><td>3M=1400V</td></tr> <tr><td>4M=1500V</td></tr> </table>			2H=500V	1U=600V	1V=700V	2K=800V	1X=900V	3A=1000V	1M=1100V	3L=1200V	2M=1300V	3M=1400V	4M=1500V	J=±5% K=±10%			<table border="1"> <tr><td>2= 2 pins</td></tr> <tr><td>4= 4 pins</td></tr> </table>		2= 2 pins	4= 4 pins	T: THB 85°C/ 85%RH			To identify when the special requirements needed					
2H=500V																																	
1U=600V																																	
1V=700V																																	
2K=800V																																	
1X=900V																																	
3A=1000V																																	
1M=1100V																																	
3L=1200V																																	
2M=1300V																																	
3M=1400V																																	
4M=1500V																																	
2= 2 pins																																	
4= 4 pins																																	
				For example: 5004=500×10 ⁴ pF =5μF			<table border="1"> <tr><td>B=27.5mm</td></tr> <tr><td>F=37.5mm</td></tr> <tr><td>M=52.5mm</td></tr> </table>		B=27.5mm	F=37.5mm	M=52.5mm	<table border="1"> <tr><td>1=0.8mm</td></tr> <tr><td>2=1.0mm</td></tr> <tr><td>3=1.2mm</td></tr> </table>			1=0.8mm	2=1.0mm	3=1.2mm	C000: Standard lead length is 5.5mm±0.5mm figure above(bulk package)															
B=27.5mm																																	
F=37.5mm																																	
M=52.5mm																																	
1=0.8mm																																	
2=1.0mm																																	
3=1.2mm																																	

Outline Dimensions

UN,85°C=500Vd.c.; UN,105°C=350Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
3	32	20	11	27.5	-	0.8	35	105	9	55	17.7	5.4	HCDB/2H3004*B21TC000
3.5	32	20	11	27.5	-	0.8	35	122	9	55	15.2	5.8	HCDB/2H3504*B21TC000
4	32	22	13	27.5	-	0.8	35	140	9	55	13.3	6.4	HCDB/2H4004*B21TC000
5	32	22	13	27.5	-	0.8	35	175	9	60	10.7	7.2	HCDB/2H5004*B21TC000
7	32	24.5	15	27.5	-	1.0	35	245	9	60	7.7	9.3	HCDB/2H7004*B22TC000
8	32	28	14	27.5	-	1.0	35	280	9	60	6.8	10.0	HCDB/2H8004*B22TC000
10	32	30	16	27.5	-	1.2	35	350	9	65	5.5	12.9	HCDB/2H1005*B23TC000
12	32	33	18	27.5	-	1.2	35	420	9	65	4.6	14.0	HCDB/2H1205*B23TC000
15	32	37	22	27.5	10.2	1.0	35	525	9	65	3.7	17.3	HCDB/2H1505*B42TC000
18	32	37	22	27.5	10.2	1.0	35	630	9	65	3.3	19.0	HCDB/2H1805*B42TC000
15	42	32	17	37.5	-	1.2	24	360	12	130	7.6	12.0	HCDB/2H1505*F23TC000
18	42	33	18	37.5	10.2	1.0	24	432	12	130	6.4	13.4	HCDB/2H1805*F42TC000
22	42	37	22	37.5	10.2	1.0	24	528	12	130	5.3	16.1	HCDB/2H2205*F42TC000
25	42	37	22	37.5	10.2	1.0	24	600	12	130	4.7	17.1	HCDB/2H2505*F42TC000
30	42	44	24	37.5	10.2	1.0	24	720	14	150	3.9	20.3	HCDB/2H3005*F42TC000
35	42	44	24	37.5	10.2	1.0	24	840	14	150	3.4	22.0	HCDB/2H3505*F42TC000
40	42	45	30	37.5	20.3	1.2	24	960	14	150	3.0	25.5	HCDB/2H4005*F43TC000
45	42	45	30	37.5	20.3	1.2	24	1080	14	150	2.7	27.0	HCDB/2H4505*F43TC000
50	57.5	45	25	52.5	10.2	1.2	16	800	20	230	5.1	21.5	HCDB/2H5005*M43TC000
60	57.5	45	25	52.5	10.2	1.2	16	960	20	230	4.3	23.5	HCDB/2H6005*M43TC000
70	57.5	45	30	52.5	20.3	1.2	16	1120	25	260	3.7	25.5	HCDB/2H7005*M43TC000
80	57.5	50	35	52.5	20.3	1.2	16	1280	25	260	3.2	29.3	HCDB/2H8005*M43TC000
90	57.5	50	35	52.5	20.3	1.2	16	1440	25	300	2.9	31.2	HCDB/2H9005*M43TC000
105	57	50	40	52.5	20.3	1.2	16	1680	25	300	2.5	33.6	HCDB/2H1056*M43TC000
120	57.5	55	45	52.5	20.3	1.2	16	1920	25	350	2.2	38.2	HCDB/2H1206*M43TC000
135	57.5	55	45	52.5	20.3	1.2	16	2160	25	350	2.0	40.8	HCDB/2H1356*M43TC000

Note: (1) "*"=capacitance tolerance code, J=±5%,K=±10%.
 (2) "I_{max}"f=the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=600Vd.c.; UN,105°C=420Vd.c.													
C _N (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
3	32	20	11	27.5	-	0.8	37	111	8	55	15.9	5.7	HCDB/1U3004*B21TC000
4	32	22	13	27.5	-	0.8	37	148	8	55	12.0	6.8	HCDB/1U4004*B21TC000
5	32	25	13	27.5	-	1.0	37	185	8	55	9.6	9.1	HCDB/1U5004*B22TC000
6	32	28	14	27.5	-	1.0	37	222	8	55	8.1	9.4	HCDB/1U6004*B22TC000
7	32	30	16	27.5	-	1.0	37	259	8	55	6.9	9.8	HCDB/1U7004*B22TC000
8	32	30	16	27.5	-	1.2	37	296	8	60	6.1	12.2	HCDB/1U8004*B23TC000
9	32	33	18	27.5	-	1.2	37	333	8	60	5.4	12.9	HCDB/1U9004*B23TC000
10	32	33	18	27.5	-	1.2	37	370	8	60	4.9	13.6	HCDB/1U1005*B23TC000
12	32	37	22	27.5	10.2	1.0	37	444	8	60	4.1	16.3	HCDB/1U1205*B42TC000
15	32	37	22	27.5	10.2	1.0	37	555	8	60	3.3	18.2	HCDB/1U1505*B42TC000
20	42	37	22	37.5	10.2	1.0	25	500	10	95	5.2	16.2	HCDB/1U2005*F42TC000
22	42	37	22	37.5	10.2	1.0	25	550	10	95	4.7	17.0	HCDB/1U2205*F42TC000
25	42	44	24	37.5	10.2	1.0	25	625	10	95	4.2	19.3	HCDB/1U2505*F42TC000
28	42	44	24	37.5	10.2	1.0	25	700	12	100	3.8	20.5	HCDB/1U2805*F42TC000
30	42	44	24	37.5	10.2	1.0	25	750	12	100	3.5	21.2	HCDB/1U3005*F42TC000
35	42	45	30	37.5	20.3	1.2	25	875	12	110	3.0	25.0	HCDB/1U3505*F43TC000
38	42	45	30	37.5	20.3	1.2	25	950	12	110	2.8	26.2	HCDB/1U3805*F43TC000
40	42	46	35	37.5	20.3	1.2	25	1000	12	110	2.7	28.2	HCDB/1U4005*F43TC000
45	42	46	35	37.5	20.3	1.2	25	1125	12	110	2.4	29.9	HCDB/1U4505*F43TC000
45	57.5	45	25	52.5	10.2	1.2	17	765	20	180	5.0	21.6	HCDB/1U4505*M43TC000
50	57.5	45	30	52.5	20.3	1.2	17	850	20	180	4.5	22.8	HCDB/1U5005*M43TC000
55	57.5	45	30	52.5	20.3	1.2	17	935	20	180	4.1	23.9	HCDB/1U5505*M43TC000
60	57.5	50	35	52.5	20.3	1.2	17	1020	20	180	3.8	27.0	HCDB/1U6005*M43TC000
65	57.5	50	35	52.5	20.3	1.2	17	1105	20	180	3.5	28.1	HCDB/1U6505*M43TC000
75	57.5	50	35	52.5	20.3	1.2	17	1275	20	200	3.1	30.0	HCDB/1U7505*M43TC000
80	57	50	40	52.5	20.3	1.2	17	1360	20	200	2.9	31.1	HCDB/1U8005*M43TC000
90	57	50	40	52.5	20.3	1.2	17	1530	20	200	2.6	33.0	HCDB/1U9005*M43TC000
95	57.5	55	45	52.5	20.3	1.2	17	1615	20	200	2.5	33.9	HCDB/1U9505*M43TC000
100	57.5	55	45	52.5	20.3	1.2	17	1700	20	230	2.4	37.2	HCDB/1U1006*M43TC000
105	57.5	55	45	52.5	20.3	1.2	17	1785	20	230	2.3	38.0	HCDB/1U1056*M43TC000

Note: (1) "*" = capacitance tolerance code, J=±5%, K=±10%.
 (2) "I_{max}" = the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.

Outline Dimensions

U _{N,85°C} =700Vd.c.; U _{N,105°C} =500Vd.c.													
C _N (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Î (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
2	32	20	11	27.5	-	0.8	45	90	8	50	21.6	4.9	HCDB/1V2004*B21TC000
3	32	22	13	27.5	-	0.8	45	135	8	50	14.4	6.2	HCDB/1V3004*B21TC000
4	32	25	13	27.5	-	1.0	45	180	8	50	10.9	7.9	HCDB/1V4004*B22TC000
5	32	28	14	27.5	-	1.0	45	225	8	50	8.7	8.8	HCDB/1V5004*B22TC000
6	32	30	16	27.5	-	1.2	45	270	8	50	7.3	11.2	HCDB/1V6004*B23TC000
7	32	33	18	27.5	-	1.2	45	315	8	50	6.3	11.9	HCDB/1V7004*B42TC000
8	32	33	18	27.5	10.2	1.0	45	360	8	50	5.5	12.8	HCDB/1V8004*B42TC000
9	32	37	22	27.5	10.2	1.0	45	405	8	50	4.9	14.9	HCDB/1V9004*B42TC000
10	32	37	22	27.5	10.2	1.0	45	450	8	50	4.5	15.7	HCDB/1V1005*B42TC000
12	32	37	22	27.5	10.2	1.0	45	540	8	50	3.8	17.2	HCDB/1V1204*B42TC000
10	42	32	17	37.5	-	1.2	30	300	12	90	9.2	11.0	HCDB/1V1005*F23TC000
12	42	33	18	37.5	-	1.2	30	360	12	90	7.7	12.0	HCDB/1V1205*F23TC000
18	42	37	22	37.5	10.2	1.0	30	540	12	100	5.2	17.4	HCDB/1V1805*F42TC000
30	42	45	30	37.5	20.3	1.2	30	900	12	100	3.2	24.8	HCDB/1V3005*F43TC000
35	57.5	45	25	52.5	10.2	1.2	20	700	20	200	5.8	20.2	HCDB/1V3505*M43TC000
40	57.5	45	30	52.5	20.3	1.2	20	800	20	200	5.1	21.5	HCDB/1V4005*M43TC000
45	57.5	45	30	52.5	20.3	1.2	20	900	20	200	4.5	22.8	HCDB/1V4505*M43TC000
50	57.5	50	35	52.5	20.3	1.2	20	1000	20	200	4.3	22.8	HCDB/1V5005*M43TC000
55	57.5	50	35	52.5	20.3	1.2	20	1100	20	200	3.8	27.2	HCDB/1V5505*M43TC000
70	57	50	40	52.5	20.3	1.2	20	1400	20	240	3.0	30.8	HCDB/1V7005*M43TC000
80	57.5	55	45	52.5	20.3	1.2	20	1600	20	240	2.7	35.0	HCDB/1V8005*M43TC000

Note: (1) "*" = capacitance tolerance code, J=±5%,K=±10%.
 (2) "I_{max}" = the max. current effective value @10kHz Θ_{amb}=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=800Vd.c.; UN,105°C=500Vd.c.													
C _N (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Î (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
2	32	22	13	27.5	-	0.8	50	100	8	50	19.4	5.4	HCDB/2K2004*B21TC000
3	32	24.5	15	27.5	-	0.8	50	150	8	50	13.0	7.2	HCDB/2K3004*B21TC000
4	32	28	14	27.5	-	1.0	50	200	8	50	9.8	8.3	HCDB/2K4004*B22TC000
5	32	33	18	27.5	-	1.0	50	250	8	50	7.9	10.8	HCDB/2K5004*B22TC000
6	32	33	18	27.5	-	1.0	50	300	8	50	6.6	11.7	HCDB/2K6004*B22TC000
7	32	37	22	27.5	-	1.2	50	350	8	50	5.7	14.0	HCDB/2K7004*B23TC000
9	32	37	22	27.5	-	1.2	50	450	8	50	4.5	14.0	HCDB/2K9004*B23TC000
7	42	30	16	37.5	-	1.2	33	231	12	85	11.7	9.0	HCDB/2K7004*F23TC000
8	42	32	17	37.5	-	1.2	33	264	12	85	10.2	10.4	HCDB/2K8004*F23TC000
9	42	33	18	37.5	-	1.2	33	297	12	85	9.1	11.0	HCDB/2K9004*F23TC000
10	42	37	22	37.5	-	1.2	33	330	12	85	8.2	13.0	HCDB/2K1005*F23TC000
12	42	37	22	37.5	-	1.2	33	396	12	95	6.9	14.0	HCDB/2K1205*F23TC000
15	42	44	24	37.5	10.2	1.0	33	495	12	95	5.6	17.0	HCDB/2K1505*F42TC000
18	42	44	24	37.5	10.2	1.0	33	594	12	110	4.7	18.5	HCDB/2K1805*F42TC000
20	42	45	30	37.5	20.3	1.2	33	660	12	110	4.2	21.3	HCDB/2K2005*F43TC000
25	57.5	45	25	52.5	10.2	1.2	22	550	20	180	7.2	18.0	HCDB/2K2505*M43TC000
30	57.5	45	30	52.5	20.3	1.2	22	660	20	180	6.0	19.8	HCDB/2K3005*M43TC000
35	57.5	45	30	52.5	20.3	1.2	22	770	20	200	5.2	21.5	HCDB/2K3505*M43TC000
40	57.5	50	35	52.5	20.3	1.2	22	880	20	200	4.6	24.6	HCDB/2K4005*M43TC000
45	57.5	50	35	52.5	20.3	1.2	22	990	20	220	4.1	26.0	HCDB/2K4505*M43TC000
50	57	50	40	52.5	20.3	1.2	22	1100	20	220	3.7	27.5	HCDB/2K5005*M43TC000
55	57	50	40	52.5	20.3	1.2	22	1210	20	240	3.4	28.8	HCDB/2K5505*M43TC000
65	57.5	55	45	52.5	20.3	1.2	22	1430	20	240	2.9	33.5	HCDB/2K6505*M43TC000

Note: (1) "*" = capacitance tolerance code, J=±5%,K=±10%.
 (2) "I_{max}" = the max. current effective value @10kHz Θ_{amb}=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=900Vd.c.; UN,105°C=630Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
1.5	32	22	13	27.5	-	0.8	63	94.5	8	50	20.1	5.2	HCDB/1X1504*B21TC000
2.5	32	28	14	27.5	-	0.8	63	157	8	50	12.2	7.5	HCDB/1X2504*B21TC000
3	32	30	16	27.5	-	1.0	63	189	8	50	10.2	9.5	HCDB/1X3004*B22TC000
4	32	33	18	27.5	-	1.0	63	252	8	50	7.7	10.9	HCDB/1X4004*B22TC000
5	32	37	22	27.5	-	1.2	63	315	8	50	6.2	13.3	HCDB/1X5004*B23TC000
6	32	37	22	27.5	-	1.2	63	378	8	50	5.2	14.0	HCDB/1X6004*B23TC000
6	42	33	18	37.5	-	1.2	42	252	12	80	10.7	10.2	HCDB/1X6004*F23TC000
7	42	37	22	37.5	-	1.2	42	294	12	80	9.2	12.1	HCDB/1X7004*F23TC000
8	42	37	22	37.5	-	1.2	42	336	12	80	8.1	12.9	HCDB/1X8004*F23TC000
9	42	37	22	37.5	-	1.2	42	378	12	80	7.2	13.8	HCDB/1X9004*F23TC000
12	42	44	24	37.5	10.2	1.0	42	504	12	95	5.5	18.5	HCDB/1X1205*F42TC000
15	42	45	30	37.5	20.3	1.2	42	630	12	95	4.4	20.8	HCDB/1X1505*F43TC000
20	42	50	35	37.5	20.3	1.2	42	840	12	100	3.4	25.8	HCDB/1X2005*F43TC000
25	42	55	40	37.5	20.3	1.2	42	1050	12	100	2.7	29.5	HCDB/1X2505*F43TC000
20	57.5	45	25	52.5	10.2	1.2	28	560	15	135	7.1	18.2	HCDB/1X2005*M43TC000
25	57.5	50	35	52.5	20.3	1.2	28	700	15	135	5.7	21.8	HCDB/1X2505*M43TC000
30	57.5	50	35	52.5	20.3	1.2	28	840	15	155	4.8	23.9	HCDB/1X3005*M43TC000
35	57	50	40	52.5	20.3	1.2	28	980	15	155	4.2	25.7	HCDB/1X3505*M43TC000
40	57.5	55	45	52.5	20.3	1.2	28	1120	15	165	3.7	29.4	HCDB/1X4005*M43TC000
45	57.5	55	45	52.5	20.3	1.2	28	1260	15	165	3.3	31.1	HCDB/1X4505*M43TC000
UN,85°C=1000Vd.c.; UN,105°C=700Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
1	32	22	13	27.5	-	0.8	70	70	8	50	27.9	4.5	HCDB/3A1004*B21TC000
2	32	28	14	27.5	-	0.8	70	140	8	50	14.0	6.9	HCDB/3A2004*B21TC000
3	32	33	18	27.5	-	1.0	70	210	8	50	9.4	9.8	HCDB/3A3004*B22TC000
4	32	37	22	27.5	-	1.2	70	280	8	50	7.1	12.4	HCDB/3A4004*B23TC000
5	32	37	22	27.5	-	1.2	70	350	8	50	5.7	13.8	HCDB/3A5004*B23TC000
5	42	33	18	37.5	-	1.2	45	225	10	70	11.9	9.6	HCDB/3A5004*F23TC000
6	42	37	22	37.5	-	1.2	45	270	10	70	9.9	11.7	HCDB/3A6004*F23TC000

Note: (1) "*"=capacitance tolerance code, J=±5%,K=±10%.
 (2) "I_{max}"=the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=1000Vd.c.; UN,105°C=700Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
7	42	37	22	37.5	-	1.2	45	315	10	70	8.5	12.5	HCDB/3A7004*F23TC000
8	42	44	24	37.5	10.2	1.0	45	360	10	70	7.5	14.6	HCDB/3A8004*F42TC000
9	42	44	24	37.5	10.2	1.0	45	405	10	90	6.7	15.4	HCDB/3A9004*F42TC000
10	42	44	24	37.5	10.2	1.0	45	450	10	90	6.0	16.2	HCDB/3A1005*F42TC000
12	42	45	30	37.5	20.3	1.2	45	540	10	90	5.1	19.4	HCDB/3A1205*F43TC000
15	57.5	45	25	52.5	10.2	1.2	30	450	12	135	8.7	16.4	HCDB/3A1505*M43TC000
20	57.5	45	30	52.5	20.3	1.2	30	600	12	135	6.6	18.9	HCDB/3A2005*M43TC000
25	57.5	50	35	52.5	20.3	1.2	30	750	12	135	5.3	22.7	HCDB/3A2505*M43TC000
30	57	50	40	52.5	20.3	1.2	30	900	12	155	4.4	24.9	HCDB/3A3005*M43TC000
35	57.5	55	45	52.5	20.3	1.2	30	1050	12	155	3.8	28.6	HCDB/3A3505*M43TC000
38	57.5	55	45	52.5	20.3	1.2	30	1140	12	155	3.5	29.8	HCDB/3A3805*M43TC000
UN,85°C=1100Vd.c.; UN,105°C=770Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
0.6	32	20	11	27.5	-	0.8	75	45	8	65	43.2	3.4	HCDB/1M6003*B21TC000
1.5	32	28	14	27.5	-	0.8	75	112	8	65	17.4	6.2	HCDB/1M1504*B21TC000
3	32	33	18	27.5	-	1.0	75	225	8	65	8.8	10.1	HCDB/1M3004*B22TC000
3.5	32	37	22	27.5	-	1.0	75	262	8	65	7.6	12.0	HCDB/1M3504*B22TC000
4	32	37	22	27.5	-	1.0	75	300	8	65	6.6	12.9	HCDB/1M4004*B22TC000
4	42	33	18	37.5	-	1.0	50	200	9	70	13.7	9.0	HCDB/1M4004*F22TC000
4.5	42	37	22	37.5	-	1.0	50	225	9	70	12.2	10.5	HCDB/1M4504*F22TC000
5	42	37	22	37.5	-	1.0	50	250	9	70	11.0	11.0	HCDB/1M5004*F22TC000
6	42	37	22	37.5	-	1.0	50	300	9	70	9.2	12.1	HCDB/1M6004*F22TC000
7	42	44	24	37.5	10.2	1.0	50	350	9	70	7.9	14.2	HCDB/1M7004*F42TC000
8	42	44	24	37.5	10.2	1.0	50	400	9	70	7.0	15.0	HCDB/1M8004*F42TC000
9	42	45	30	37.5	20.3	1.2	50	450	9	75	6.2	17.5	HCDB/1M9004*F43TC000
10	42	45	30	37.5	20.3	1.2	50	500	9	75	5.6	18.5	HCDB/1M1005*F43TC000
11	42	45	30	37.5	20.3	1.2	50	550	9	75	5.1	19.4	HCDB/1M1105*F43TC000
12	42	46	35	37.5	20.3	1.2	50	600	9	75	4.7	21.0	HCDB/1M1205*F43TC000

Note: (1) "*"=capacitance tolerance code, J=±5%,K=±10%.
 (2) "I_{max}"f=the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=1100Vd.c.; UN,105°C=770Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10-4)		ESR@10kHz (mΩ)	Imax (A)	Ordering Information
									1kHz	10kHz			
13	42	46	35	37.5	20.3	1.2	50	650	9	75	4.4	22.0	HCDB/1M1305*F43TC000
14	42	50	35	37.5	20.3	1.2	50	700	9	75	4.1	22.8	HCDB/1M1405*F43TC000
15	42	50	35	37.5	20.3	1.2	50	750	9	75	3.8	23.6	HCDB/1M1505*F43TC000
15	57.5	45	30	52.5	20.3	1.2	33	495	15	110	8.0	17.0	HCDB/1M1505*M43TC000
20	57.5	50	35	52.5	20.3	1.2	33	660	15	125	6.1	21.1	HCDB/1M2005*M43TC000
25	57	50	40	52.5	20.3	1.2	33	825	15	125	4.9	23.7	HCDB/1M2505*M43TC000
30	57.5	55	45	52.5	20.3	1.2	33	990	15	150	4.1	27.6	HCDB/1M3005*M43TC000
UN,85°C=1200Vd.c.; UN,105°C=850Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10-4)		ESR@10kHz (mΩ)	Imax (A)	Ordering Information
									1kHz	10kHz			
0.8	32	22	13	27.5	-	0.8	80	64	8	60	30.4	4.3	HCDB/3L8003*B21TC000
1.2	32	28	14	27.5	-	0.8	80	96	8	60	20.3	5.7	HCDB/3L1204*B21TC000
1.5	32	28	14	27.5	-	0.8	80	120	8	60	16.3	6.4	HCDB/3L1504*B21TC000
2	32	30	16	27.5	-	1.0	80	160	8	60	12.3	8.6	HCDB/3L2004*B22TC000
2.2	32	33	18	27.5	-	1.0	80	176	8	60	11.2	8.9	HCDB/3L2204*B22TC000
3	32	37	22	27.5	-	1.2	80	240	8	60	8.3	11.6	HCDB/3L3004*B23TC000
3.3	32	37	22	27.5	-	1.2	80	264	8	60	7.5	12.1	HCDB/3L3304*B23TC000
4	42	37	22	37.5	-	1.2	53	212	10	65	12.8	10.2	HCDB/3L4004*F23TC000
5	42	37	22	37.5	-	1.2	53	265	10	65	10.3	11.5	HCDB/3L5004*F23TC000
6	42	44	24	37.5	10.2	1.0	53	318	10	65	8.6	13.5	HCDB/3L6004*F42TC000
7	42	44	24	37.5	10.2	1.0	53	371	10	65	7.4	14.5	HCDB/3L7004*F42TC000
8	42	45	30	37.5	20.3	1.2	53	424	10	65	6.5	17.1	HCDB/3L8004*F43TC000
9	42	45	30	37.5	20.3	1.2	53	477	10	65	5.8	18.2	HCDB/3L9004*F43TC000
10	42	46	35	37.5	20.3	1.2	53	530	10	85	5.2	20.0	HCDB/3L1005*F43TC000
12	42	50	35	37.5	20.3	1.2	53	636	10	85	4.4	22.0	HCDB/3L1205*F43TC000
12	57.5	45	25	52.5	10.2	1.2	36	432	12	110	9.3	15.8	HCDB/3L1205*M43TC000
15	57.5	50	35	52.5	20.3	1.2	36	540	12	110	8.0	19.0	HCDB/3L1505*M43TC000
20	57	50	40	52.5	20.3	1.2	36	720	12	120	5.7	21.9	HCDB/3L2005*M43TC000
25	57.5	55	45	52.5	20.3	1.2	36	900	12	120	4.8	26.1	HCDB/3L2505*M43TC000

Note: (1) "*" = capacitance tolerance code, J=±5%,K=±10%.
 (2) "Imax" = the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=1400Vd.c.; UN,105°C=980Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
0.8	32	25	13	27.5	-	0.8	92	74	8	55	27.1	4.9	HCDB/3M8003*B21TC000
1	32	28	14	27.5	-	0.8	92	92	8	55	21.7	5.5	HCDB/3M1004*B21TC000
1.5	32	30	16	27.5	-	1.0	92	138	8	55	14.6	7.8	HCDB/3M1504*B22TC000
2	32	33	18	27.5	-	1.0	92	184	8	55	11.0	9.0	HCDB/3M2004*B22TC000
2.5	32	37	22	27.5	-	1.2	92	230	8	55	8.8	11.1	HCDB/3M2504*B23TC000
3	42	37	22	37.5	-	1.2	60	180	8	65	15.0	9.4	HCDB/3M3004*F23TC000
4	42	37	22	37.5	-	1.2	60	240	8	65	11.3	10.8	HCDB/3M4004*F23TC000
5	42	44	24	37.5	10.2	1.2	60	300	8	65	9.1	13.0	HCDB/3M5004*F43TC000
6	42	45	30	37.5	20.3	1.2	60	360	8	65	7.6	15.8	HCDB/3M6004*F43TC000
8	42	46	35	37.5	20.3	1.2	60	480	8	65	5.8	19.0	HCDB/3M8004*F43TC000
10	42	50	35	37.5	20.3	1.2	60	600	8	65	4.6	21.2	HCDB/3M1005*F43TC000
10	57.5	45	30	52.5	20.3	1.2	40	400	10	100	9.8	15.3	HCDB/3M1005*M43TC000
12	57.5	50	35	52.5	20.3	1.2	40	480	10	100	8.2	18.1	HCDB/3M1205*M43TC000
15	57.5	50	35	52.5	20.3	1.2	40	600	10	100	6.6	20.2	HCDB/3M1505*M43TC000
16	57	50	40	52.5	20.3	1.2	40	640	12	105	6.2	20.9	HCDB/3M1605*M43TC000
18	57.5	55	45	52.5	20.3	1.2	40	720	12	105	5.5	23.6	HCDB/3M1805*M43TC000
20	57.5	55	45	52.5	20.3	1.2	40	800	12	105	5.0	24.9	HCDB/3M2005*M43TC000
UN,85°C=1500Vd.c.; UN,105°C=1050Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10 ⁻⁴)		ESR@10kHz (mΩ)	I _{max} (A)	Ordering Information
									1kHz	10kHz			
0.8	32	28	14	27.5	-	0.8	105	84	8	55	24.6	5.2	HCDB/4M8003*B21TC000
1.5	32	33	18	27.5	-	1.0	105	157	8	55	13.2	8.2	HCDB/4M1504*B22TC000
2	32	37	22	27.5	-	1.2	105	210	8	55	10.0	10.4	HCDB/4M2004*B23TC000
2.2	32	37	22	27.5	-	1.2	105	231	8	55	9.1	10.9	HCDB/4M2204*B23TC000
2.5	42	37	22	37.5	-	1.2	70	175	8	55	16.2	9.1	HCDB/4M2504*F23TC000
3	42	37	22	37.5	-	1.2	70	210	8	55	13.5	9.9	HCDB/4M3004*F23TC000
4	42	44	24	37.5	10.2	1.0	70	280	8	65	10.2	12.3	HCDB/4M4004*F42TC000
5	42	45	30	37.5	20.3	1.2	70	350	8	65	8.2	15.2	HCDB/4M5004*F43TC000
5.5	42	45	30	37.5	20.3	1.2	70	385	8	65	7.5	15.8	HCDB/4M5504*F43TC000
6	42	46	35	37.5	20.3	1.2	70	420	10	65	6.9	17.4	HCDB/4M6004*F43TC000

Note: (1) "*" = capacitance tolerance code, J=±5%,K=±10%.
 (2) "I_{max}" = the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.

Outline Dimensions

UN,85°C=1500Vd.c.; UN,105°C=1050Vd.c.													
CN (μF)	W±1 (mm)	H±1 (mm)	B±1 (mm)	P (mm)	P1 (mm)	d±0.05 (mm)	dv/dt (V/μs)	Ī (A)	tanδ(×10-4)		ESR@10kHz (mΩ)	Imax (A)	Ordering Information
									1kHz	10kHz			
7	42	50	35	37.5	20.3	1.2	70	490	10	65	5.9	18.8	HCDB/4M7004*F43TC000
8	42	55	40	37.5	20.3	1.2	70	560	10	75	5.2	20.9	HCDB/4M8004*F43TC000
8	57.5	45	30	52.5	20.3	1.2	45	360	10	95	10.9	14.5	HCDB/4M8004*M43TC000
10	57.5	50	35	52.5	20.3	1.2	45	450	10	105	8.8	17.5	HCDB/4M1005*M43TC000
12	57	50	40	52.5	20.3	1.2	45	540	10	105	7.4	19.2	HCDB/4M1205*M43TC000
15	57.5	55	45	52.5	20.3	1.2	45	675	10	105	5.9	22.9	HCDB/4M1505*M43TC000

Note: (1) "*" = capacitance tolerance code, J=±5%, K=±10%.
 (2) "Imax" = the max. current effective value @10kHz Θamb=70°C, ΔT≤20°C.