

# HCDA


DC-Link-Capacitor(Dry-type,Aluminum Case)



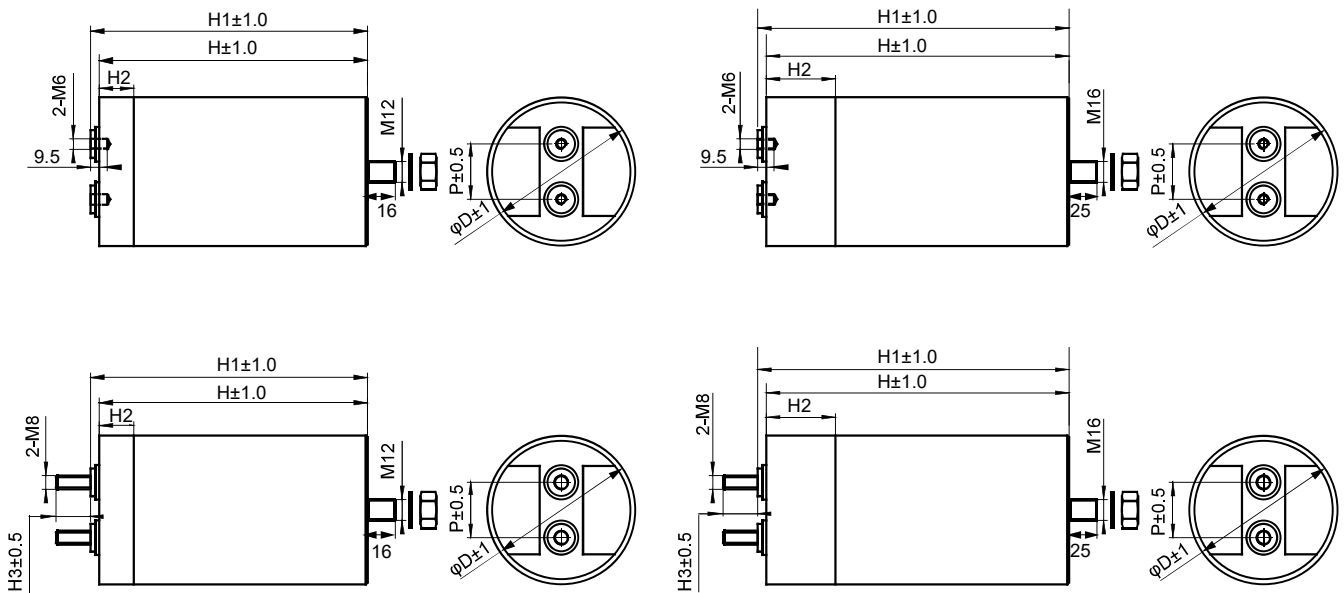
## Features

- Applied in DC-Link circuits, can replace electrolytic capacitor
- Low ESR, high capability of ripple current
- Low ESL
- Self-healing property, long lifetime
- Aluminum case, resin filled

## Safety Approvals

	UL	UL810	10µF-5500µF, max 4000Vd.c. max 90°C File No.: E222132,CCN:CZDS2
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## Outline Drawing



Note: 1)  $\phi D \leq 96$ ,  $H2=20$ ,  $\phi D > 96$ ,  $H2=40$ ;  
 2) Bottom bolt can be seen in table 3

## Specifications

Reference standard		GB/T 17702 (IEC 61071)
Rated voltage (U <sub>N</sub> )		600Vd.c. ~ 4000Vd.c.
Capacitance range		20μF ~ 5500μF
Climatic category		D ≤ 116mm:40/85/56 D = 136mm:40/80/56
Operating temperature range (Θ <sub>hs</sub> )		D ≤ 116mm: -40°C ~ 85°C (Θ <sub>hs</sub> ≤ 85°C) D = 136mm: -40°C ~ 80°C (Θ <sub>hs</sub> ≤ 80°C)
Capacitance tolerance		±5%(J)/±10%(K)
Voltage proof	Between terminals	1.5U <sub>N</sub> (10s, 20°C ± 5°C)
	Between terminal and case	U <sub>N</sub> ≤ 1500Vd.c., 3000Va.c. (10s, 50Hz, 20°C ± 5°C) U <sub>N</sub> > 1500Vd.c., (U <sub>N</sub> + 1000V)Va.c. (10s, 50Hz, 20°C ± 5°C)
Insulation resistance (IR × C <sub>N</sub> )		≥ 5000s (20°C, 500Vd.c., 60s)
Dielectric dissipation factor (tanδ <sub>d</sub> )		2 × 10 <sup>-4</sup>
Over voltage		1.1U <sub>N</sub> (30% of on-load duration/d) 1.15 U <sub>N</sub> (30min/d) 1.2 U <sub>N</sub> (5min/d) 1.3 U <sub>N</sub> (1min/d) 1.5U <sub>N</sub> (An overvoltage equal to 1.5U <sub>N</sub> for 30ms is permitted 1000 times during the life of the capacitor)
Max. altitude		2000m
Max. torque of terminals		M6:5N·m M8:6N·m
Installation		Any Position
Expected lifetime		100,000h@U <sub>N</sub> , Θ <sub>hs</sub> = 70°C
Failure rate		200FIT@U <sub>N</sub> , Θ <sub>hs</sub> = 70°C

## 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	
H	C	D	A	/																(	x	x	x	)
<b>Series code</b>				<b>DC rated voltage</b>		<b>Rated capacitance value</b>		<b>Capacitance tolerance</b>		<b>Outline dimension code</b>		<b>Terminal code</b>		<b>Internal code</b>		<b>Internal code</b>								
				See table 1		For example: 5006=500×10 <sup>6</sup> pF =500μF		J=±5% K=±10%		See table 2		See table 3		0=(Standard part)		To identify when the special requirements needed								

**Table 1 Outline Dimensions Code**

Rated voltage	600V	700V	800V	900V	1000V	1100V	1200V	1300V	1400V	1500V
Code	1U	1V	2K	1X	3A	1M	3L	2M	3M	4M
Rated voltage	2000V	2200V	2400V	2600V	2800V	3000V	3200V	3600V	4000V	
Code	3D	2N	1N	3N	6P	4Q	6Q	7R	3G	

**Table2 Outline Dimension Code**

Code	ΦD (mm)	*h (mm)	H (mm)	Code	ΦD (mm)	*h (mm)	H (mm)
12	76	75	95	3C	96	155	175
16	76	100	120	51	116	55	95
18	76	120	140	53	116	80	120
1A	76	135	155	56	116	100	140
1C	76	155	175	58	116	120	160
22	86	75	95	5A	116	135	175
26	86	100	120	5G	116	185	225
27	86	116	136	5H	116	190	230
28	86	120	140	5M	116	225	265
2A	86	135	155	63	136	80	120
2C	86	155	175	66	136	100	140
2S	86	205	225	6A	136	135	175
2T	86	230	250	6G	136	185	225
32	96	75	95	6M	136	225	265
36	96	100	120	6Q	136	255	295
38	96	120	140				

Note: \*h=The height of aluminum case

**Table3 Terminal Code**

Digit 15		Digit 16		Digit 17		Digit 18	
Code	Terminal Form	Code	Fix style	Code	Length of terminals	Code	Specifications of terminals
M	Male Terminal	1	Bottom bolt M12 (D≤96mm)	0	20mm	0	M8 (P=32mm, D≤86mm)
		2	Bottom bolt M16 (D≥106mm)			1	M8 (P=45mm, D=96mm)
						2	M8 (P=50mm, D≥106mm)
T	Thread Hole	1	Bottom bolt M12 (D≤96mm)	1	9.5mm	3	M6 (P=32mm, D≤86mm)
						4	M6 (P=45mm, D=96mm)
		2	Bottom bolt M16 (D≥106mm)			5	M6 (P=50mm, D≥106mm)

Outline Dimensions

UN=600Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
500	1.5	5.6	1604	63	53	40	76	95	HCDA/1U5006-12****0
650	1.9	4.7	3189	61	51	39	76	120	HCDA/1U6506-16****0
780	1.8	4.6	3253	64	53	40	76	140	HCDA/1U7806-18****0
860	1.6	4.3	2988	70	58	44	76	155	HCDA/1U8606-1A****0
1000	1.5	4.2	2978	73	61	46	76	175	HCDA/1U1007-1C****0
650	1.3	5.1	2085	71	60	45	86	95	HCDA/1U6506-22****0
860	1.5	4.7	4219	69	58	44	86	120	HCDA/1U8606-26****0
1000	1.7	4.6	4170	65	55	42	86	136	HCDA/1U1007-27****0
1000	1.7	4.5	4170	66	55	42	86	140	HCDA/1U1007-28****0
1200	1.5	4.4	4170	71	60	45	86	155	HCDA/1U1207-2A****0
1400	1.3	4.3	4170	77	65	49	86	175	HCDA/1U1407-2C****0
2100	1.1	3	6255	100	84	64	86	250	HCDA/1U2107-2T****0
900	1.4	4.8	2681	71	59	45	96	95	HCDA/1U9006-32****0
1100	1.3	4.2	5397	78	66	50	96	120	HCDA/1U1107-36****0
1250	1.4	3.9	5213	78	66	50	96	140	HCDA/1U1257-38****0
1800	1.1	3.3	5362	96	80	61	96	175	HCDA/1U1807-3C****0
1300	1.4	5.4	4170	67	56	42	116	95	HCDA/1U1307-51****0
1700	1.1	5	8341	78	65	50	116	120	HCDA/1U1707-53****0
2000	1.1	4.9	8341	79	66	50	116	140	HCDA/1U2007-56****0
2400	0.9	3.6	8341	100	85	65	116	160	HCDA/1U2407-58****0
2700	0.9	3.4	8043	100	82	66	116	175	HCDA/1U2707-5A****0
3400	0.8	2.7	11816	100	100	68	116	230	HCDA/1U3407-5H****0
5500	0.8	2	14893	100	100	79	136	295	HCDA/1U5507-6Q****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=700Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
360	1.7	5.6	1354	59	50	38	76	95	HCDA/1V3606-12****0
480	2.1	4.7	2761	58	49	37	76	120	HCDA/1V4806-16****0
580	2.4	4.6	2835	55	46	35	76	140	HCDA/1V5806-18****0
640	1.6	4.3	2607	70	58	44	76	155	HCDA/1V6406-1A****0
730	1.6	4.2	2549	71	59	45	76	175	HCDA/1V7306-1C****0
480	1.3	5.1	1805	71	60	45	86	95	HCDA/1V4806-22****0
620	1.7	4.7	3566	65	54	41	86	120	HCDA/1V6206-26****0
750	2.0	4.6	3667	60	51	38	86	136	HCDA/1V7506-27****0
860	1.5	4.4	3504	71	60	45	86	155	HCDA/1V8606-2A****0
1000	1.6	4.3	3492	70	58	44	86	175	HCDA/1V1007-2C****0
1500	1.1	3	5238	100	84	64	86	250	HCDA/1V1507-2T****0
650	1.5	4.8	2270	68	57	43	96	95	HCDA/1V6506-32****0
780	1.6	4.2	4486	71	59	45	96	120	HCDA/1V7806-36****0
950	1.6	3.9	4645	73	61	47	96	140	HCDA/1V9506-38****0
1300	1.9	3.3	4540	73	61	46	96	175	HCDA/1V1307-3C****0
920	1.6	5.4	3460	62	52	40	116	95	HCDA/1V9206-51****0
1250	1.7	5	7190	63	53	40	116	120	HCDA/1V1257-53****0
1500	1.3	4.9	7334	73	61	46	116	140	HCDA/1V1507-56****0
1700	1.0	3.6	6926	96	81	61	116	160	HCDA/1V1707-58****0
1600	1.0	3.4	6245	100	83	63	116	175	HCDA/1V1607-5A****0
2100	0.9	2.7	9563	100	90	64	116	230	HCDA/1V2107-5H****0
4200	0.8	2	13501	100	90	79	136	295	HCDA/1V4207-6Q****0
UN=800Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
290	1.8	5.6	1219	58	48	37	76	95	HCDA/2K2906-12****0
360	1.7	4.7	2314	65	54	41	76	120	HCDA/2K3606-16****0
450	2.3	4.6	2459	56	47	36	76	140	HCDA/2K4506-18****0
540	1.7	4.3	2459	68	57	43	76	155	HCDA/2K5406-1A****0
650	1.8	4.2	2537	67	56	42	76	175	HCDA/2K6506-1C****0

Note: (1) “.”=capacitance tolerance code, J=±5%,K=±10%;  
(2) “\*\*\*\*” =terminal code(see table 3).

Outline Dimensions

UN=800Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
380	1.4	5.1	1597	68	57	43	86	95	HCDA/2K3806-22****0
480	1.3	4.7	3086	74	62	47	86	120	HCDA/2K4806-26****0
580	2.0	4.6	3169	60	51	38	86	136	HCDA/2K5806-27****0
600	2.0	4.5	3278	61	51	39	86	140	HCDA/2K6006-28****0
700	1.7	4.4	3187	67	56	42	86	155	HCDA/2K7006-2A****0
800	1.6	4.3	3122	70	58	44	86	175	HCDA/2K8006-2C****0
1200	1.3	3	4684	93	78	59	86	250	HCDA/2K1207-2T****0
540	1.5	4.8	2107	68	57	43	96	95	HCDA/2K5406-32****0
620	1.4	4.2	3986	75	63	48	96	120	HCDA/2K6206-36****0
750	1.6	3.9	4098	73	61	47	96	140	HCDA/2K7506-38****0
1000	1.8	3.3	3903	75	63	48	96	175	HCDA/2K1007-3C****0
750	1.0	5.4	3152	79	66	50	116	95	HCDA/2K7506-51****0
1000	1.1	5	6429	78	65	50	116	120	HCDA/2K1007-53****0
1150	1.2	4.9	6284	75	63	48	116	140	HCDA/2K1157-56****0
1400	0.9	3.6	6375	100	85	65	116	160	HCDA/2K1407-58****0
1600	1.0	3.4	6245	99	83	63	116	175	HCDA/2K1607-5A****0
1700	0.9	2.7	8760	100	95	64	116	230	HCDA/2K1707-5H****0
3200	0.8	2	11640	100	100	79	136	295	HCDA/2K3207-6Q****0
UN=900Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
290	2.0	5.6	1219	55	46	35	76	95	HCDA/1X2906-12****0
380	2.6	4.7	2443	52	44	33	76	120	HCDA/1X3806-16****0
450	2.9	4.6	2459	50	42	32	76	140	HCDA/1X4506-18****0
540	1.8	4.3	2459	66	55	42	76	155	HCDA/1X5406-1A****0
620	1.7	4.2	2420	68	57	43	76	175	HCDA/1X6206-1C****0
380	1.6	5.1	1597	64	54	41	86	95	HCDA/1X3806-22****0
500	2.1	4.7	3214	58	49	37	86	120	HCDA/1X5006-26****0
580	2.2	4.6	3169	58	48	37	86	136	HCDA/1X5806-27****0
600	2.4	4.5	3278	56	47	35	86	140	HCDA/1X6006-28****0

Note: (1) “.”=capacitance tolerance code, J=±5%,K=±10%;  
(2) “\*\*\*\*” =terminal code(see table 3).

Outline Dimensions

UN=900Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
700	1.6	4.4	3187	69	58	44	86	155	HCDA/1X7006-2A****0
820	1.6	4.3	3200	70	58	44	86	175	HCDA/1X8206-2C****0
1200	1.4	3	4684	89	75	57	86	250	HCDA/1X1207-2T****0
520	1.4	4.8	2029	71	59	45	96	95	HCDA/1X5206-32****0
620	1.6	4.2	3986	71	59	45	96	120	HCDA/1X6206-36****0
750	1.7	3.9	4098	71	60	45	96	140	HCDA/1X7506-38****0
1000	1.4	3.3	3903	85	71	54	96	175	HCDA/1X1007-3C****0
750	1.0	5.4	3152	79	66	50	116	95	HCDA/1X7506-51****0
980	1.2	5	6300	75	63	47	116	120	HCDA/1X9806-53****0
1150	1.4	4.9	6284	70	59	44	116	140	HCDA/1X1157-56****0
1400	1.2	3.6	6375	88	74	56	116	160	HCDA/1X1407-58****0
1600	1.1	3.4	6245	95	79	60	116	175	HCDA/1X1607-5A****0
1700	1.0	2.7	8760	100	90	70	116	230	HCDA/1X1707-5H****0
3200	0.9	2	11640	100	100	75	136	295	HCDA/1X3207-6Q****0
UN=1000Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
220	2.2	5.6	1046	52	44	33	76	95	HCDA/3A2206-12****0
300	2.1	4.7	2182	58	49	37	76	120	HCDA/3A3006-16****0
350	1.9	4.6	2164	62	52	39	76	140	HCDA/3A3506-18****0
420	1.9	4.3	2164	64	54	41	76	155	HCDA/3A4206-1A****0
500	1.9	4.2	2208	65	54	41	76	175	HCDA/3A5006-1C****0
290	1.8	5.1	1379	60	51	38	86	95	HCDA/3A2906-22****0
400	2.3	4.7	2910	56	47	35	86	120	HCDA/3A4006-26****0
460	2.2	4.6	2844	58	48	37	86	136	HCDA/3A4606-27****0
460	2.2	4.5	2844	58	49	37	86	140	HCDA/3A4606-28****0
550	1.6	4.4	2834	69	58	44	86	155	HCDA/3A5506-2A****0
640	1.6	4.3	2826	70	58	44	86	175	HCDA/3A6406-2C****0
900	1.4	3	3975	89	75	57	86	250	HCDA/3A9006-2T****0
400	1.5	4.8	1766	68	57	43	96	95	HCDA/3A4006-32****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=1000Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
500	1.8	4.2	3637	67	56	42	96	120	HCDA/3A5006-36****0
580	1.9	3.9	3586	67	56	43	96	140	HCDA/3A5806-38****0
800	1.2	3.3	3533	92	77	58	96	175	HCDA/3A8006-3C****0
600	1.1	5.4	2854	75	63	48	116	95	HCDA/3A6006-51****0
780	1.5	5	5674	67	56	42	116	120	HCDA/3A7806-53****0
900	1.5	4.9	5565	68	57	43	116	140	HCDA/3A9006-56****0
1100	1.2	3.6	5668	88	74	56	116	160	HCDA/3A1107-58****0
1300	1.0	3.4	5742	99	83	63	116	175	HCDA/3A1307-5A****0
1350	1.0	2.7	7765	100	90	70	116	230	HCDA/3A1357-5H****0
2600	0.9	2	10557	100	100	75	136	295	HCDA/3A2607-6Q****0
UN=1100Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
180	2.3	5.6	955	51	43	32	76	95	HCDA/1M1806-12****0
240	3.0	4.7	1949	49	41	31	76	120	HCDA/1M2406-16****0
280	3.2	4.6	1932	48	40	30	76	140	HCDA/1M2806-18****0
340	1.9	4.3	1955	64	54	41	76	155	HCDA/1M3406-1A****0
400	2.0	4.2	1972	63	53	40	76	175	HCDA/1M4006-1C****0
240	1.9	5.1	1274	59	49	37	86	95	HCDA/1M2406-22****0
300	2.4	4.7	2436	54	46	35	86	120	HCDA/1M3006-26****0
420	2.2	4.6	1380	58	48	37	86	136	HCDA/1M4206-27****0
420	1.7	4.4	2416	67	56	42	86	155	HCDA/1M4206-2A****0
500	1.8	4.3	2465	66	55	42	86	175	HCDA/1M5006-2C****0
750	1.3	3	3697	93	78	59	86	250	HCDA/1M7506-2T****0
330	1.6	4.8	1627	66	55	42	96	95	HCDA/1M3306-32****0
400	1.9	4.2	3248	65	54	41	96	120	HCDA/1M4006-36****0
480	2.0	3.9	3313	66	55	42	96	140	HCDA/1M4806-38****0
650	1.4	3.3	3204	85	71	54	96	175	HCDA/1M6506-3C****0
480	1.2	5.4	2548	72	60	46	116	95	HCDA/1M4806-51****0
620	1.4	5	5035	69	58	44	116	120	HCDA/1M6206-53****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).



Outline Dimensions

UN=1100Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
750	1.6	4.9	5177	65	55	41	116	140	HCDA/1M7506-56****0
900	1.4	3.6	5177	82	68	52	116	160	HCDA/1M9006-58****0
1000	1.2	3.4	4930	91	76	58	116	175	HCDA/1M1007-5A****0
1300	1.1	2.7	7478	100	85	65	116	230	HCDA/1M1307-5H****0
2200	1.0	2	9863	100	100	80	136	295	HCDA/1M2207-6Q****0
UN=1200Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
140	2.7	5.6	820	47	39	30	76	95	HCDA/3L1406-12****0
200	2.6	4.7	1793	52	44	33	76	120	HCDA/3L2006-16****0
240	2.4	4.6	1829	55	46	35	76	140	HCDA/3L2406-18****0
280	2.1	4.3	1778	61	51	39	76	155	HCDA/3L2806-1A****0
320	2.0	4.2	1742	63	53	40	76	175	HCDA/3L3206-1C****0
200	2.2	5.1	1172	55	46	35	86	95	HCDA/3L2006-22****0
260	2.1	4.7	2331	58	49	37	86	120	HCDA/3L2606-26****0
310	2.5	4.6	2362	54	45	34	86	136	HCDA/3L3106-27****0
300	2.5	4.5	2286	55	46	35	86	140	HCDA/3L3006-28****0
360	1.8	4.4	2286	65	54	41	86	155	HCDA/3L3606-2A****0
420	1.9	4.3	2286	64	54	41	86	175	HCDA/3L4206-2C****0
640	1.7	3	3484	81	68	51	86	250	HCDA/3L6406-2T****0
270	1.8	4.8	1469	62	52	40	96	95	HCDA/3L2706-32****0
340	2.0	4.2	3048	63	53	40	96	120	HCDA/3L3406-36****0
380	2.2	3.9	2896	62	52	40	96	140	HCDA/3L3806-38****0
540	1.6	3.3	2939	80	67	51	96	175	HCDA/3L5406-3C****0
380	1.2	5.4	2227	72	60	46	116	95	HCDA/3L3806-51****0
510	1.6	5	4573	65	54	41	116	120	HCDA/3L5106-53****0
600	1.8	4.9	4573	62	52	39	116	140	HCDA/3L6006-56****0
720	1.6	3.6	4573	76	64	48	116	160	HCDA/3L7206-58****0
850	1.4	3.4	4627	84	70	53	116	175	HCDA/3L8506-5A****0
910	1.1	2.7	6325	100	89	65	116	230	HCDA/3L9106-5H****0
1800	1.0	2	8831	100	100	80	136	295	HCDA/3L1807-6Q****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%; "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=1300Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	î (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
120	2.9	5.6	769	45	38	29	76	95	HCDA/2M1206-12****0
170	2.6	4.7	1668	52	44	33	76	120	HCDA/2M1706-16****0
200	2.5	4.6	1668	54	45	34	76	140	HCDA/2M2006-18****0
240	2.4	4.3	1668	57	48	36	76	155	HCDA/2M2406-1A****0
280	2.3	4.2	1668	59	49	37	76	175	HCDA/2M2806-1C****0
170	2.3	5.1	1090	53	45	34	86	95	HCDA/2M1706-22****0
220	2.8	4.7	2158	50	42	32	86	120	HCDA/2M2206-26****0
250	2.8	4.6	2085	51	43	32	86	136	HCDA/2M2506-27****0
300	2.2	4.4	2085	59	49	37	86	155	HCDA/2M3006-2A****0
360	2.0	4.3	2144	62	52	40	86	175	HCDA/2M3606-2C****0
520	1.6	3	3098	84	70	53	86	250	HCDA/2M5206-2T****0
220	1.8	4.8	1310	62	52	40	96	95	HCDA/2M2206-32****0
280	1.7	4.2	2747	68	57	43	96	120	HCDA/2M2806-36****0
330	2.3	3.9	2752	61	51	39	96	140	HCDA/2M3306-38****0
450	1.4	3.3	2681	85	71	54	96	175	HCDA/2M4506-3C****0
320	1.3	5.4	2053	69	58	44	116	95	HCDA/2M3206-51****0
430	1.6	5	4219	65	54	41	116	120	HCDA/2M4306-53****0
510	1.8	4.9	4253	62	52	39	116	140	HCDA/2M5106-56****0
620	1.2	3.6	4309	88	74	56	116	160	HCDA/2M6206-58****0
700	1.3	3.4	4170	87	73	55	116	175	HCDA/2M7006-5A****0
900	1.2	2.7	6255	100	85	65	116	230	HCDA/2M9006-5H****0
1500	1.1	2	7994	100	100	75	136	295	HCDA/2M1507-6Q****0
UN=1400Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	î (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
100	3.1	5.6	960	44	37	28	76	95	HCDA/3M1006-12****0
140	3.9	4.7	1100	43	36	27	76	120	HCDA/3M1406-16****0
160	4.5	4.6	1100	40	34	26	76	140	HCDA/3M1606-18****0
190	2.4	4.3	1434	57	48	36	76	155	HCDA/3M1906-1A****0
220	2.5	4.2	1423	56	47	36	76	175	HCDA/3M2206-1C****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=1400Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
140	2.4	5.1	975	52	44	33	86	95	HCDA/3M1406-22****0
180	3.1	4.7	1918	48	40	30	86	120	HCDA/3M1806-26****0
220	2.9	4.6	1993	50	42	32	86	136	HCDA/3M2206-27****0
260	1.8	4.4	1963	65	54	41	86	155	HCDA/3M2606-2A****0
300	2.2	4.3	1941	60	50	38	86	175	HCDA/3M3006-2C****0
450	1.6	3	2912	84	70	53	86	250	HCDA/3M4506-2T****0
180	1.8	4.8	1164	62	52	40	96	95	HCDA/3M1806-32****0
240	2.2	4.2	2558	60	50	38	96	120	HCDA/3M2406-36****0
280	2.3	3.9	2536	61	51	39	96	140	HCDA/3M2806-38****0
380	1.6	3.3	2459	80	67	51	96	175	HCDA/3M3806-3C****0
280	1.4	5.4	1951	67	56	42	116	95	HCDA/3M2806-51****0
360	1.8	5	3837	61	51	39	116	120	HCDA/3M3606-53****0
430	1.9	4.9	3895	60	50	38	116	140	HCDA/3M4306-56****0
500	1.2	3.6	3775	88	74	56	116	160	HCDA/3M5006-58****0
600	1.4	3.4	3882	84	70	53	116	175	HCDA/3M6006-5A****0
750	1.2	2.7	5662	100	85	65	116	230	HCDA/3M7506-5H****0
1300	1.1	2	7567	100	100	75	136	295	HCDA/3M1307-6Q****0
UN=1500Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
90	3.3	5.6	687	43	36	27	76	95	HCDA/4M9005-12****0
120	3.2	4.7	1413	47	40	30	76	120	HCDA/4M1206-16****0
140	3.4	4.6	1397	46	39	29	76	140	HCDA/4M1406-18****0
170	2.6	4.3	1408	55	46	35	76	155	HCDA/4M1706-1A****0
200	2.5	4.2	1417	56	47	36	76	175	HCDA/4M2006-1C****0
120	2.6	5.1	916	50	42	32	86	95	HCDA/4M1206-22****0
150	3.2	4.7	1767	47	40	30	86	120	HCDA/4M1506-26****0
180	2.9	4.6	1796	50	42	32	86	136	HCDA/4M1806-27****0
220	2.1	4.4	1823	60	50	38	86	155	HCDA/4M2206-2A****0
260	2.2	4.3	1842	60	50	38	86	175	HCDA/4M2606-2C****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=1500Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
160	2.0	4.8	1133	59	49	38	96	95	HCDA/4M1606-32****0
200	2.2	4.2	2356	60	50	38	96	120	HCDA/4M2006-36****0
240	2.6	3.9	2394	57	48	36	96	140	HCDA/4M2406-38****0
320	1.5	3.3	2267	82	69	52	96	175	HCDA/4M3206-3C****0
230	1.5	5.4	1757	64	54	41	116	95	HCDA/4M2306-51****0
300	1.8	5	3534	61	51	39	116	120	HCDA/4M3006-53****0
360	2.2	4.9	3592	56	47	35	116	140	HCDA/4M3606-56****0
430	1.2	3.6	3563	88	74	56	116	160	HCDA/4M4306-58****0
500	1.4	3.4	3543	84	70	53	116	175	HCDA/4M5006-5A****0
630	1.2	2.7	5221	100	85	65	116	230	HCDA/4M6306-5H****0
1100	1.2	2	6873	100	95	70	136	295	HCDA/4M1107-6Q****0
UN=2000Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ī (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
110	3.5	4.5	1420	46	39	29	86	140	HCDA/3D1106-28****0
180	1.9	3.8	1930	68	57	43	86	225	HCDA/3D1806-2S****0
180	2.3	5	2744	54	45	34	116	120	HCDA/3D1806-53****0
220	2.4	4.9	2841	53	45	34	116	140	HCDA/3D2206-56****0
250	1.3	3.4	2553	87	73	55	116	175	HCDA/3D2506-5A****0
380	1.5	2.9	4075	88	74	56	116	225	HCDA/3D3806-5G****0
250	1.8	3	3811	79	66	50	136	120	HCDA/3D2506-63****0
310	2.0	2.8	4003	77	65	49	136	140	HCDA/3D3106-66****0
340	1.2	2.5	3472	100	90	65	136	175	HCDA/3D3406-6A****0
440	1.3	2.1	5255	100	90	70	136	225	HCDA/3D4406-6G****0
550	1.3	1.9	5237	100	95	75	136	265	HCDA/3D5506-6M****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=2200Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
90	3.7	4.5	1294	45	38	28	86	140	HCDA/2N9005-28****0
150	1.9	3.8	1791	68	57	43	86	225	HCDA/2N1506-2S****0
145	2.2	5	2462	55	46	35	116	120	HCDA/2N1456-53****0
170	2.5	4.9	2444	52	44	33	116	140	HCDA/2N1706-56****0
240	1.8	3.4	2451	74	62	47	116	175	HCDA/2N2406-5A****0
310	1.6	2.9	3702	85	71	54	116	225	HCDA/2N3106-5G****0
200	2.0	3	3396	75	63	47	136	120	HCDA/2N2006-63****0
240	2.2	2.8	3451	74	62	47	136	140	HCDA/2N2406-66****0
340	1.8	2.5	3472	86	72	55	136	175	HCDA/2N3406-6A****0
440	1.6	2.1	5255	100	84	63	136	225	HCDA/2N4406-6G****0
550	1.5	1.9	5237	100	90	69	136	265	HCDA/2N5506-6M****0
UN=2400Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
70	3.8	4.5	2319	44	37	28	86	140	HCDA/1N7005-28****0
140	2.4	3.8	2345	61	51	38	86	225	HCDA/1N1406-2S****0
120	2.3	5	2258	54	45	34	116	120	HCDA/1N1206-53****0
140	2.7	4.9	4639	50	42	32	116	140	HCDA/1N1406-56****0
195	2.0	3.4	4503	70	59	45	116	175	HCDA/1N1956-5A****0
270	1.6	2.9	4522	85	71	54	116	225	HCDA/1N2706-5G****0
170	2.1	3	3199	73	61	46	136	120	HCDA/1N1706-63****0
190	2.2	2.8	6296	74	62	47	136	140	HCDA/1N1906-66****0
270	1.8	2.5	6236	86	72	55	136	175	HCDA/1N2706-6A****0
380	1.6	2.1	6365	100	84	63	136	225	HCDA/1N3806-6G****0
450	1.5	1.9	9661	100	91	69	136	265	HCDA/1N4506-6M****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=2600Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
60	4.0	4.5	2175	43	36	27	86	140	HCDA/3N6005-28****0
115	2.2	3.8	2108	63	53	40	86	225	HCDA/3N1156-2S****0
100	2.3	5	2059	54	45	34	116	120	HCDA/3N1006-53****0
115	2.4	4.9	4170	53	45	34	116	140	HCDA/3N1156-56****0
165	1.4	3.4	4170	84	70	53	116	175	HCDA/3N1656-5A****0
220	1.7	2.9	4033	82	69	52	116	225	HCDA/3N2206-5G****0
140	2.1	3	2883	73	61	46	136	120	HCDA/3N1406-63****0
160	2.3	2.8	5802	72	60	46	136	140	HCDA/3N1606-66****0
230	1.4	2.5	5813	98	82	62	136	175	HCDA/3N2306-6A****0
320	1.5	2.1	5866	100	86	65	136	225	HCDA/3N3206-6G****0
380	1.4	1.9	8928	100	94	70	136	265	HCDA/3N3806-6M****0
UN=2800Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ī (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
50	4.2	4.5	1969	42	35	27	86	140	HCDA/6P5005-28****0
100	2.6	3.8	1991	58	49	37	86	225	HCDA/6P1006-2S****0
85	2.4	5	1901	53	44	34	116	120	HCDA/6P8505-53****0
95	2.9	4.9	3742	49	41	31	116	140	HCDA/6P9505-56****0
135	1.8	3.4	3706	74	62	47	116	175	HCDA/6P1356-5A****0
190	1.6	2.9	3783	85	71	54	116	225	HCDA/6P1906-5G****0
120	2.2	3	2684	71	60	45	136	120	HCDA/6P1206-63****0
140	2.4	2.8	5514	71	59	45	136	140	HCDA/6P1406-66****0
200	1.8	2.5	5490	86	72	55	136	175	HCDA/6P2006-6A****0
270	1.6	2.1	5376	100	84	63	136	225	HCDA/6P2706-6G****0
320	1.5	1.9	8166	100	90	65	136	265	HCDA/6P3206-6M****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

UN=3000Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ĥ (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
40	4.5	4.5	1778	41	34	26	86	140	HCDA/4Q4005-28****0
80	2.4	3.8	1758	61	51	38	86	225	HCDA/4Q8005-2S****0
75	2.7	5	1801	50	42	32	116	120	HCDA/4Q7505-53****0
80	2.4	4.9	3556	53	45	34	116	140	HCDA/4Q8005-56****0
115	1.6	3.4	3514	78	66	50	116	175	HCDA/4Q1156-5A****0
160	1.6	2.9	3516	85	71	54	116	225	HCDA/4Q1606-5G****0
100	2.3	3	2475	70	58	44	136	120	HCDA/4Q1006-63****0
110	2.4	2.8	4889	71	59	45	136	140	HCDA/4Q1106-66****0
165	1.6	2.5	5042	92	77	58	136	175	HCDA/4Q1656-6A****0
230	1.5	2.1	5054	100	86	65	136	225	HCDA/4Q2306-6G****0
265	1.6	1.9	7511	100	88	67	136	265	HCDA/4Q2656-6M****0
UN=3200Vd.c.									
CN (μF)	ESR (mΩ(1kHz))	Rth (K/W)	Ĥ (A)	Imax			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
35	4.6	4.5	1670	40	34	26	86	140	HCDA/6Q3505-28****0
70	2.5	3.8	1651	59	50	38	86	225	HCDA/6Q7005-2S****0
65	2.8	5	1675	49	41	31	116	120	HCDA/6Q6505-53****0
70	3.0	4.9	3340	48	40	30	116	140	HCDA/6Q7005-56****0
100	1.8	3.4	3280	74	62	47	116	175	HCDA/6Q1006-5A****0
140	1.5	2.9	3302	88	74	56	116	225	HCDA/6Q1406-5G****0
88	2.2	3	2338	71	60	45	136	120	HCDA/6Q8805-63****0
100	2.5	2.8	4771	69	58	44	136	140	HCDA/6Q1006-66****0
140	1.7	2.5	4592	89	74	56	136	175	HCDA/6Q1406-6A****0
200	1.5	2.1	4718	100	86	65	136	225	HCDA/6Q2006-6G****0
230	1.7	1.9	6998	100	85	65	136	265	HCDA/6Q2306-6M****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).

Outline Dimensions

U <sub>N</sub> =3600Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ĥ (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
25	4.1	4.5	1438	43	36	27	86	140	HCDA/7R2505-28****0
50	2.7	3.8	1421	57	48	36	86	225	HCDA/7R5005-2S****0
43	2.6	5	1377	51	43	32	116	120	HCDA/7R4305-53****0
50	2.6	4.9	2876	51	43	33	116	140	HCDA/7R5005-56****0
95	1.8	2.9	2701	80	67	51	116	225	HCDA/7R9505-5G****0
110	1.7	2.6	4035	87	73	55	116	265	HCDA/7R1106-5M****0
60	2.3	3	1922	70	58	44	136	120	HCDA/7R6005-63****0
67	2.0	2.8	3854	77	65	49	136	140	HCDA/7R6705-66****0
135	1.6	2.1	3839	100	84	63	136	225	HCDA/7R1356-6G****0
160	1.5	1.9	5869	100	90	69	136	265	HCDA/7R1606-6M****0
U <sub>N</sub> =4000Vd.c.									
C <sub>N</sub> (μF)	ESR (mΩ(1kHz))	R <sub>th</sub> (K/W)	Ĥ (A)	I <sub>max</sub>			D (mm)	H (mm)	Ordering Information
				50°C	60°C	70°C			
20	4.5	4.5	1281	41	34	26	86	140	HCDA/3G2005-28****0
40	3.7	3.8	1266	49	41	31	86	225	HCDA/3G4005-2S****0
35	3.6	5	1248	43	36	27	116	120	HCDA/3G3505-53****0
40	3.2	4.9	2562	46	39	29	116	140	HCDA/3G4005-56****0
80	1.8	2.9	2533	80	67	51	116	225	HCDA/3G8005-5G****0
90	1.8	2.6	3676	85	71	54	116	265	HCDA/3G9005-5M****0
50	2.7	3	1783	64	54	41	136	120	HCDA/3G5005-63****0
55	2.6	2.8	3523	68	57	43	136	140	HCDA/3G5505-66****0
110	1.9	2.1	3483	92	77	58	136	225	HCDA/3G1106-6G****0
130	1.8	1.9	5310	99	83	63	136	265	HCDA/3G1306-6M****0

Note: (1) "-"=capacitance tolerance code, J=±5%,K=±10%;  
 (2) "\*\*\*\*" =terminal code(see table 3).