HCAB

AC Filter 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

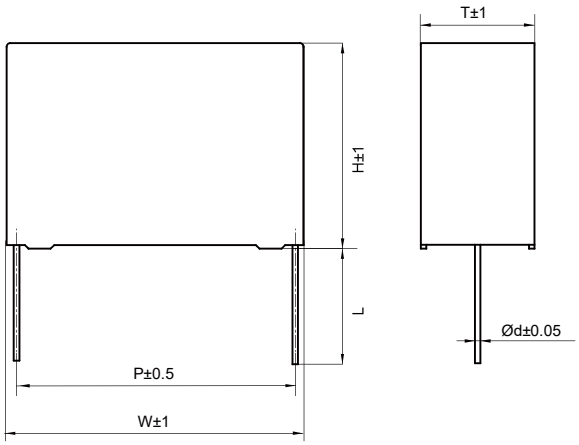
- For use in AC and harmonic filtering in UPS systems, motor drives, renewable energy, and automotive systems.

Safety Approvals

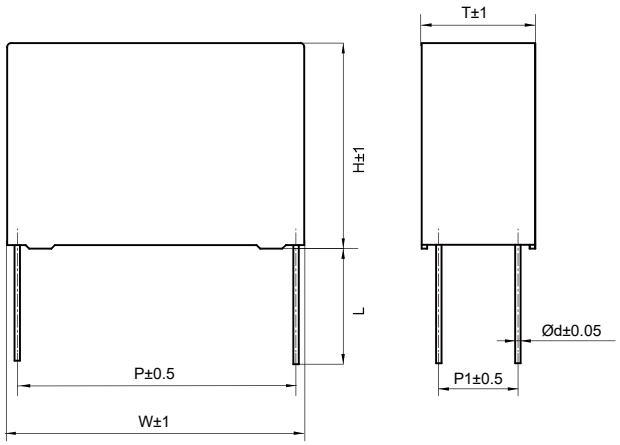
	TÜV	EN 61071:2017	0.33μF-60μF,250Vd.c.-600Vd.c. 40/105/56 File No.: R50516396
c US	UL/cUL	UL810	0.22μF-60μF,max 660Vd.c.,max 105˚C File No.: E222132, CCN:CZDS2/8

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 RMS voltage	U_{RMS}(Va.c.)	250	310	350	400	500	600
Rated a.c. voltage	U_N(Va.c.)	350	435	490	560	700	840
Maximum continuous d.c. voltage	U_{NDC}(Vd.c.)	500	630	700	800	1000	1200
Capacitance range	C_N	0.33μF~60μF					
Capacitance tolerance		±5%(J),±10%(K)					
Dielectric loss factor	tanδd	0.0002					
Insulation resistance (20℃,100Vd.c.,1min)	IR×C_N	⩾3000s					
Climatic category		40/85/56					
Operating temperature range(case)	T_{OP}	-40℃~+105℃(85℃~105℃：decreasing factor 1.5% per ℃ for U_{RMS})					
Voltage proof between terminals	U_{t-t}	1.5U_{RMS}/10s					
Rated temperature	T_R	85℃					
Self-inductance	L_S	< 1 nH per mm of lead spacing					

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 A B	/	E 2	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**

Rated voltage
E2=250Va.c.
Q3=310Va.c.
R2=350Va.c.
G2=400Va.c.
H2=500Va.c.
U1=600Va.c.

Rated capacitance
For example:
1004=100×10⁴pF
=1μF

Capacitance tolerance
J=±5%
M=±10%

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

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

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

Lead form and packaging code
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 Parameter

U_{RMS}=250Va.c., U_N=350Va.c., U_{NDC}=500Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
1.0	32.0	18.0	9.0	27.5	-	0.8	29.4	40	3.4	40	120	HCAB/E21004+B01000****
1.5	32.0	20.0	11.0	27.5	-	0.8	19.6	40	4.6	60	180	HCAB/E21504+B01000****
2.0	32.0	22.0	13.0	27.5	-	0.8	14.7	40	5.5	80	240	HCAB/E22004+B01000****
2.5	32.0	22.0	13.0	27.5	-	0.8	11.8	40	6.2	100	300	HCAB/E22504+B01000****
3.0	32.0	28.0	14.0	27.5	-	0.8	9.8	40	7.4	120	360	HCAB/E23004+B01000****
3.5	32.0	28.0	14.0	27.5	-	0.8	8.4	40	8.0	140	420	HCAB/E23504+B01000****
4.0	32.0	30.0	16.0	27.5	-	0.8	7.3	40	9.9	160	480	HCAB/E24004+B01000****
4.5	32.0	33.0	18.0	27.5	-	0.8	6.5	40	10.5	180	540	HCAB/E24504+B01000****
5.0	32.0	33.0	18.0	27.5	-	0.8	5.9	40	11.0	200	600	HCAB/E25004+B01000****
5.5	32.0	33.0	18.0	27.5	-	0.8	5.3	40	11.7	220	660	HCAB/E25504+B01000****
6.0	32.0	37.0	22.0	27.5	-	0.8	4.9	40	13.3	240	720	HCAB/E26004+B01000****
6.5	32.0	37.0	22.0	27.5	-	0.8	4.5	40	13.9	260	780	HCAB/E26504+B01000****
7.0	32.0	37.0	22.0	27.5	-	0.8	4.2	40	14.4	280	840	HCAB/E27004+B01000****
7.5	32.0	37.0	22.0	27.5	-	0.8	3.9	40	14.9	300	900	HCAB/E27504+B01000****
8.0	42.0	33.0	18.0	37.5	-	1	7	30	11.2	240	720	HCAB/E28004+F02000****
8.5	42.0	40.0	20.0	37.5	-	1	6.6	30	12.8	255	765	HCAB/E28504+F02000****
9.0	42.0	40.0	20.0	37.5	-	1	6.3	30	13.1	270	810	HCAB/E29004+F02000****
10.0	42.0	40.0	20.0	37.5	-	1	5.6	30	13.9	300	900	HCAB/E21005+F02000****
11.0	42.0	44.0	24.0	37.5	-	1.2	5.1	30	15.6	330	990	HCAB/E21105+F03000****
11.0	42.0	44.0	24.0	37.5	10.2	1.2	4.4	30	16.7	330	990	HCAB/E21105+FB3000****
12.0	42.0	44.0	24.0	37.5	-	1.2	4.7	30	16.3	360	1080	HCAB/E21205+FB3000****
12.0	42.0	44.0	24.0	37.5	10.2	1.2	4.2	30	16.8	360	1080	HCAB/E21205+FB3000****
13.0	42.0	44.0	24.0	37.5	10.2	1.2	4.3	30	17.0	390	1170	HCAB/E21305+FB3000****
14.0	42.0	44.0	24.0	37.5	10.2	1.2	4	30	17.6	420	1260	HCAB/E21405+FB3000****
15.0	42.0	44.0	24.0	37.5	10.2	1.2	3.8	30	18.1	450	1350	HCAB/E21505+FB3000****
16.0	42.0	45.0	30.0	37.5	10.2	1.2	3.5	30	20.7	480	1440	HCAB/E21605+FB3000****
18.0	42.0	45.0	30.0	37.5	10.2	1.2	3.1	30	22.0	540	1620	HCAB/E21805+FB3000****
20.0	42.0	45.0	30.0	37.5	10.2	1.2	2.8	30	23.1	600	1800	HCAB/E22005+FB3000****
22.0	42.0	50.0	35.0	37.5	20.3	1.2	2.6	30	25.2	660	1980	HCAB/E22205+FA3000****
25.0	42.0	50.0	35.0	37.5	20.3	1.2	2.3	30	26.8	750	2250	HCAB/E22505+FA3000****
28.0	42.0	55.0	40.0	37.5	20.3	1.2	2	30	30.0	840	2520	HCAB/E22805+FA3000****

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

Technical Parameter

U_{RMS}=250Va.c., U_N=350Va.c., U_{NDC}=500Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$\hat{I}_S$(A)	Ordering Information
30.0	42.0	55.0	40.0	37.5	20.3	1.2	1.9	30	30.8	900	2700	HCAB/E23005+FA3000****
32.0	42.0	55.0	40.0	37.5	20.3	1.2	1.8	30	32.9	960	2880	HCAB/E23205+FA3000****
35.0	42.0	60.0	45.0	37.5	20.3	1.2	1.6	30	34.9	1050	3150	HCAB/E23505+FA3000****
40.0	42.0	60.0	45.0	37.5	20.3	1.2	1.4	30	37.3	1200	3600	HCAB/E24005+FA3000****
24.0	57.5	45.0	25.0	52.5	10.2	1.2	5.1	18	19.2	432	1296	HCAB/E22405+MB3000****
25.0	57.5	45.0	30.0	52.5	20.3	1.2	4.9	18	19.6	450	1350	HCAB/E22505+MA3000****
28.0	57.5	45.0	30.0	52.5	20.3	1.2	4.4	18	20.6	504	1512	HCAB/E22805+MA3000****
30.0	57.5	45.0	30.0	52.5	20.3	1.2	4.1	18	21.4	540	1620	HCAB/E23005+MA3000****
35.0	57.5	50.0	35.0	52.5	20.3	1.2	3.5	18	24.9	630	1890	HCAB/E23505+MA3000****
40.0	57.5	50.0	35.0	52.5	20.3	1.2	3.1	18	26.5	720	2160	HCAB/E24005+MA3000****
45.0	57.5	55.0	45.0	52.5	20.3	1.2	2.7	18	30.3	810	2430	HCAB/E24505+MA3000****
50.0	57.5	55.0	45.0	52.5	20.3	1.2	2.5	18	31.5	900	2700	HCAB/E25005+MA3000****
55.0	57.5	55.0	45.0	52.5	20.3	1.2	2.2	18	33.5	990	2970	HCAB/E25505+MA3000****
60.0	57.5	65.0	45.0	52.5	20.3	1.2	2.1	18	35.9	1080	3240	HCAB/E26005+MA3000****

U_{RMS}=310Va.c., U_N=438Va.c., U_{NDC}=630Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$\hat{I}_S$(A)	Ordering Information
0.68	32.0	18.0	9.0	27.5	-	0.8	35.8	45	3.1	30	90	HCAB/Q36803+B01000****
1.0	32.0	20.0	11.0	27.5	-	0.8	24.3	45	4.2	45	135	HCAB/Q31004+B01000****
1.5	32.0	22.0	13.0	27.5	-	0.8	16.2	45	5.3	67	201	HCAB/Q31504+B01000****
2.0	32.0	25.0	13.0	27.5	-	0.8	12.2	45	6.7	90	270	HCAB/Q32004+B01000****
2.3	32.0	28.0	14.0	27.5	-	0.8	10.6	45	7.1	103	309	HCAB/Q32304+B01000****
2.5	32.0	30.0	16.0	27.5	-	0.8	9.7	45	8.6	112	336	HCAB/Q32504+B01000****
3.0	32.0	33.0	18.0	27.5	-	0.8	8.1	45	9.4	135	405	HCAB/Q33004+B01000****
3.5	32.0	33.0	18.0	27.5	-	0.8	6.9	45	10.2	157	471	HCAB/Q33504+B01000****
4.0	32.0	37.0	22.0	27.5	-	0.8	6.1	45	11.9	180	540	HCAB/Q34004+B01000****
4.5	32.0	37.0	22.0	27.5	-	0.8	5.4	45	12.7	202	606	HCAB/Q34504+B01000****
5.0	32.0	37.0	22.0	27.5	-	0.8	4.9	45	13.3	225	675	HCAB/Q35004+B01000****
5.5	42.0	33.0	18.0	37.5	-	1	8.5	34	10.2	187	561	HCAB/Q35504+F02000****
6.0	42.0	40.0	20.0	37.5	-	1	7.8	34	11.8	204	612	HCAB/Q36004+F02000****
7.0	42.0	40.0	20.0	37.5	-	1	7.8	34	11.8	238	714	HCAB/Q37004+F02000****

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

Technical Parameter

U_{RMS}=310Va.c., U_N=438Va.c., U_{NDC}=630Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
8.0	42.0	44.0	24.0	37.5	-	1.2	6.7	34	13.6	272	816	HCAB/Q38004+F03000****
8.0	42.0	44.0	24.0	37.5	10.2	1.2	6	34	14.3	272	816	HCAB/Q38004+FB3000****
9.0	42.0	44.0	24.0	37.5	-	1.2	5.8	34	14.7	306	918	HCAB/Q39004+F03000****
9.0	42.0	44.0	24.0	37.5	10.2	1.2	5.1	34	15.7	306	918	HCAB/Q39004+FB3000****
10.0	42.0	44.0	24.0	37.5	-	1.2	5.2	34	15.5	340	1020	HCAB/Q31005+F03000****
10.0	42.0	44.0	24.0	37.5	10.2	1.2	4.5	34	16.5	340	1020	HCAB/Q31005+FB3000****
12.0	42.0	45.0	30.0	37.5	20.3	1.2	4.7	34	17.9	408	1224	HCAB/Q31205+FA3000****
15.0	42.0	50.0	35.0	37.5	20.3	1.2	4.7	34	18.7	510	1530	HCAB/Q31505+FA3000****
18.0	42.0	50.0	35.0	37.5	20.3	1.2	4.7	34	18.7	612	1836	HCAB/Q31805+FA3000****
20.0	42.0	55.0	40.0	37.5	20.3	1.2	3.9	34	21.5	680	2040	HCAB/Q32005+FA3000****
22.0	42.0	55.0	40.0	37.5	20.3	1.2	3.1	34	24.1	748	2244	HCAB/Q32205+FA3000****
25.0	42.0	60.0	45.0	37.5	20.3	1.2	2.6	34	27.4	850	2550	HCAB/Q32505+FA3000****
28.0	42.0	60.0	45.0	37.5	20.3	1.2	2.3	34	29.1	952	2856	HCAB/Q32805+FA3000****
20.0	57.5	45.0	30.0	52.5	20.3	1.2	4.6	24	20.2	480	1440	HCAB/Q32005+MA3000****
25.0	57.5	50.0	35.0	52.5	20.3	1.2	4.1	24	23.0	600	1800	HCAB/Q32505+MA3000****
30.0	57.5	55.0	45.0	52.5	20.3	1.2	3.6	24	26.2	720	2160	HCAB/Q33005+MA3000****
35.0	57.5	55.0	45.0	52.5	20.3	1.2	5.1	24	22.0	840	2520	HCAB/Q33505+MA3000****
40.0	57.5	65.0	45.0	52.5	20.3	1.2	4.1	24	25.7	960	2880	HCAB/Q34005+MA3000****
45.0	57.5	65.0	45.0	52.5	20.3	1.2	3.4	24	28.2	1080	3240	HCAB/Q34505+MA3000****

U_{RMS}=350Va.c., U_N=480Va.c., U_{NDC}=700Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
0.47	32.0	18.0	9.0	27.5	-	0.8	23.6	125	3.8	58	174	HCAB/R24703+B01000****
0.68	32.0	20.0	11.0	27.5	-	0.8	16.3	125	5.1	85	255	HCAB/R26803+B01000****
1.0	32.0	25.0	13.0	27.5	-	0.8	11.1	125	7.0	125	375	HCAB/R21004+B01000****
1.5	32.0	28.0	14.0	27.5	-	0.8	7.4	125	8.5	187	561	HCAB/R21504+B01000****
2.0	32.0	33.0	18.0	27.5	-	0.8	5.5	125	11.4	250	750	HCAB/R22004+B01000****
2.2	32.0	33.0	18.0	27.5	-	0.8	5	125	12.0	275	825	HCAB/R22204+B01000****
2.5	32.0	37.0	22.0	27.5	-	0.8	4.4	125	14.1	312	936	HCAB/R22504+B01000****
3.0	32.0	37.0	22.0	27.5	-	0.8	3.7	125	15.3	375	1125	HCAB/R23004+B01000****
3.0	42.0	33.0	18.0	37.5	-	1	8.5	80	10.2	240	720	HCAB/R23004+F02000****

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

Technical Parameter

U_{RMS}=350Va.c., U_N=480Va.c., U_{NDC}=700Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
3.5	42.0	33.0	18.0	37.5	-	1	7.3	80	11.0	280	840	HCAB/R23504+F02000****
4.0	42.0	40.0	20.0	37.5	-	1	6.4	80	13.0	320	960	HCAB/R24004+F02000****
4.5	42.0	40.0	20.0	37.5	-	1	5.7	80	13.8	360	1080	HCAB/R24504+F02000****
5.0	42.0	40.0	20.0	37.5	-	1	5.1	80	14.6	400	1200	HCAB/R25004+F02000****
5.5	42.0	44.0	24.0	37.5	10.2	1.2	4.7	80	16.3	440	1320	HCAB/R25504+FB3000****
6.0	42.0	44.0	24.0	37.5	10.2	1.2	4.3	80	17.0	480	1440	HCAB/R26004+FB3000****
6.5	42.0	44.0	24.0	37.5	10.2	1.2	3.9	80	17.9	520	1560	HCAB/R26504+FB3000****
7.0	42.0	45.0	30.0	37.5	20.3	1.2	3.7	80	20.1	560	1680	HCAB/R27004+FA3000****
8.0	42.0	45.0	30.0	37.5	20.3	1.2	3.2	80	21.7	640	1920	HCAB/R28004+FA3000****
9.0	42.0	45.0	30.0	37.5	20.3	1.2	2.8	80	23.1	720	2160	HCAB/R29004+FA3000****
10.0	42.0	46.0	35.0	37.5	20.3	1.2	2.6	80	25.2	800	2400	HCAB/R21005+FA3000****
12.0	42.0	50.0	35.0	37.5	20.3	1.2	2.1	80	28.0	960	2880	HCAB/R21205+FA3000****
15.0	42.0	55.0	40.0	37.5	20.3	1.2	1.7	80	32.5	1200	3600	HCAB/R21505+FA3000****
18.0	42.0	60.0	45.0	37.5	20.3	1.2	1.4	80	37.3	1440	4320	HCAB/R21805+FA3000****
12.0	57.5	45.0	30.0	52.5	20.3	1.2	4.7	55	20.4	660	1980	HCAB/R21205+MA3000****
15.0	57.5	50.0	35.0	52.5	20.3	1.2	3.7	55	24.2	825	2475	HCAB/R21505+MA3000****
18.0	57.5	50.0	35.0	52.5	20.3	1.2	3.1	55	26.5	990	2970	HCAB/R21805+MA3000****
20.0	57.5	55.0	45.0	52.5	20.3	1.2	2.8	55	29.7	1100	3300	HCAB/R22005+MA3000****
25.0	57.5	55.0	45.0	52.5	20.3	1.2	2.2	55	33.5	1375	4125	HCAB/R22505+MA3000****
30.0	57.5	65.0	45.0	52.5	20.3	1.2	1.9	55	37.7	1650	4950	HCAB/R23005+MA3000****

U_{RMS}=400Va.c., U_N=560Va.c., U_{NDC}=800Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
0.33	32.0	18.0	9.0	27.5	-	0.8	31.6	145	3.3	47	141	HCAB/G23303+B01000****
0.5	32.0	20.0	11.0	27.5	-	0.8	20.9	145	4.5	72	216	HCAB/G25003+B01000****
0.68	32.0	22.0	13.0	27.5	-	0.8	15.3	145	5.4	98	294	HCAB/G26803+B01000****
1.0	32.0	28.0	14.0	27.5	-	0.8	10.4	145	7.2	145	435	HCAB/G21004+B01000****
1.5	32.0	33.0	18.0	27.5	-	0.8	7	145	10.1	217	651	HCAB/G21504+B01000****
2.0	32.0	37.0	22.0	27.5	-	0.8	5.2	145	12.9	290	870	HCAB/G22004+B01000****
2.2	32.0	37.0	22.0	27.5	-	0.8	4.7	145	13.6	319	957	HCAB/G22204+B01000****
2.5	32.0	37.0	22.0	27.5	-	0.8	4.2	145	14.4	362	1086	HCAB/G22504+B01000****

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

Technical Parameter

U_{RMS}=400Va.c., U_N=560Va.c., U_{NDC}=800Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
2.5	42.0	33.0	18.0	37.5	-	1	8.9	90	10.0	225	675	HCAB/G22504+F02000****
3.0	42.0	40.0	20.0	37.5	-	1	7.4	90	12.1	270	810	HCAB/G23004+F02000****
3.3	42.0	40.0	20.0	37.5	-	1	6.7	90	12.7	297	891	HCAB/G23304+F02000****
3.5	42.0	40.0	20.0	37.5	-	1	6.3	90	13.1	315	945	HCAB/G23504+F02000****
4.0	42.0	44.0	24.0	37.5	10.2	1.2	5.5	90	15.0	360	1080	HCAB/G24004+FB3000****
4.5	42.0	44.0	24.0	37.5	10.2	1.2	4.9	90	15.9	405	1215	HCAB/G24504+FB3000****
5.0	42.0	44.0	24.0	37.5	10.2	1.2	4.4	90	16.8	450	1350	HCAB/G25004+FB3000****
5.5	42.0	45.0	30.0	37.5	20.3	1.2	4	90	19.4	495	1485	HCAB/G25504+FA3000****
6.0	42.0	45.0	30.0	37.5	20.3	1.2	3.7	90	20.1	540	1620	HCAB/G26004+FA3000****
6.5	42.0	45.0	30.0	37.5	20.3	1.2	3.4	90	21.0	585	1755	HCAB/G26504+FA3000****
7.0	42.0	45.0	30.0	37.5	20.3	1.2	3.2	90	21.7	630	1890	HCAB/G27004+FA3000****
8.0	42.0	46.0	35.0	37.5	20.3	1.2	2.8	90	24.3	720	2160	HCAB/G28004+FA3000****
9.0	42.0	50.0	35.0	37.5	20.3	1.2	2.5	90	25.7	810	2430	HCAB/G29004+FA3000****
10.0	42.0	55.0	40.0	37.5	20.3	1.2	2.2	90	28.6	900	2700	HCAB/G21005+FA3000****
12.0	42.0	60.0	45.0	37.5	20.3	1.2	1.8	90	32.9	1080	3240	HCAB/G21205+FA3000****
14.0	42.0	60.0	45.0	37.5	20.3	1.2	1.6	90	34.9	1260	3780	HCAB/G21405+FA3000****
10.0	57.5	45.0	30.0	52.5	20.3	1.2	4.9	60	19.6	600	1800	HCAB/G21005+MA3000****
12.0	57.5	50.0	35.0	52.5	20.3	1.2	4.1	60	23.0	720	2160	HCAB/G21205+MA3000****
14.0	57.5	50.0	35.0	52.5	20.3	1.2	3.5	60	24.9	840	2520	HCAB/G21405+MA3000****
15.0	57.5	55.0	45.0	52.5	20.3	1.2	3.3	60	27.4	900	2700	HCAB/G21505+MA3000****
18.0	57.5	55.0	45.0	52.5	20.3	1.2	2.7	60	30.3	1080	3240	HCAB/G21805+MA3000****
20.0	57.5	55.0	45.0	52.5	20.3	1.2	2.4	60	32.1	1200	3600	HCAB/G22005+MA3000****

U_{RMS}=500Va.c., U_N=700Va.c., U_{NDC}=1000Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
0.33	32.0	20.0	11.0	27.5	-	0.8	25	180	4.1	59	177	HCAB/H23303+B01000****
0.5	32.0	25.0	13.0	27.5	-	0.8	16.5	180	5.7	90	270	HCAB/H25003+B01000****
1.0	32.0	33.0	18.0	27.5	-	0.8	8.3	180	9.3	180	540	HCAB/H21004+B01000****
1.5	32.0	37.0	22.0	27.5	-	0.8	5.5	180	12.6	270	810	HCAB/H21504+B01000****
1.5	42.0	33.0	18.0	37.5	-	1	11.7	110	8.7	165	495	HCAB/H21504+F02000****
2.0	42.0	40.0	20.0	37.5	10.2	1	8.8	110	11.1	220	660	HCAB/H22004+FB2000****

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

Technical Parameter

U_{RMS}=500Va.c., U_N=700Va.c., U_{NDC}=1000Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
2.2	42.0	40.0	20.0	37.5	10.2	1	8	110	11.6	242	726	HCAB/H22204+FB2000****
2.5	42.0	44.0	24.0	37.5	10.2	1.2	7	110	13.3	275	825	HCAB/H22504+FB3000****
3.0	42.0	44.0	24.0	37.5	10.2	1.2	5.8	110	14.7	330	990	HCAB/H23004+FB3000****
3.5	42.0	45.0	30.0	37.5	20.3	1.2	5	110	17.3	385	1155	HCAB/H23504+FA3000****
4.0	42.0	45.0	30.0	37.5	20.3	1.2	4.4	110	18.5	440	1320	HCAB/H24004+FA3000****
4.5	42.0	46.0	35.0	37.5	20.3	1.2	3.9	110	20.6	495	1485	HCAB/H24504+FA3000****
5.0	42.0	46.0	35.0	37.5	20.3	1.2	3.5	110	21.7	550	1650	HCAB/H25004+FA3000****
5.5	42.0	50.0	35.0	37.5	20.3	1.2	3.2	110	22.7	605	1815	HCAB/H25504+FA3000****
6.0	42.0	55.0	40.0	37.5	20.3	1.2	2.9	110	24.9	660	1980	HCAB/H26004+FA3000****
6.5	42.0	55.0	40.0	37.5	20.3	1.2	2.7	110	25.8	715	2145	HCAB/H26504+FA3000****
7.0	42.0	55.0	40.0	37.5	20.3	1.2	2.5	110	26.8	770	2310	HCAB/H27004+FA3000****
8.0	42.0	60.0	45.0	37.5	20.3	1.2	2.2	110	29.8	880	2640	HCAB/H28004+FA3000****
9.0	42.0	60.0	45.0	37.5	20.3	1.2	1.9	110	32.0	990	2970	HCAB/H29004+FA3000****
6.0	57.5	45.0	30.0	52.5	20.3	1.2	6.5	75	17.0	450	1350	HCAB/H26004+MA3000****
7.0	57.5	50.0	35.0	52.5	20.3	1.2	5.5	75	19.9	525	1575	HCAB/H27004+MA3000****
8.0	57.5	50.0	35.0	52.5	20.3	1.2	4.8	75	21.3	600	1800	HCAB/H28004+MA3000****
9.0	57.5	55.0	45.0	52.5	20.3	1.2	4.3	75	24.0	675	2025	HCAB/H29004+MA3000****
10.0	57.5	55.0	45.0	52.5	20.3	1.2	3.9	75	25.2	750	2250	HCAB/H21005+MA3000****
12.0	57.5	55.0	45.0	52.5	20.3	1.2	3.2	75	27.8	900	2700	HCAB/H21205+MA3000****

U_{RMS}=600Va.c., U_N=840Va.c., U_{NDC}=1200Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
0.33	32.0	22.0	13.0	27.5	-	0.8	20.7	215	4.7	70	210	HCAB/U13303+B01000****
0.5	32.0	33.0	18.0	27.5	-	0.8	13.7	215	7.2	107	321	HCAB/U15003+B01000****
0.68	32.0	33.0	18.0	27.5	-	0.8	10	215	8.5	146	438	HCAB/U16803+B01000****
1.0	32.0	37.0	22.0	27.5	-	0.8	6.8	215	11.3	215	645	HCAB/U11004+B01000****
1.2	42.0	33.0	18.0	37.5	-	1	12.1	145	8.6	174	522	HCAB/U11204+F02000****
1.5	42.0	40.0	20.0	37.5	-	1	9.7	145	10.6	217	651	HCAB/U11504+F02000****
1.5	42.0	40.0	20.0	37.5	10.2	1	8.7	145	11.2	217	651	HCAB/U11504+FB2000****
2.0	42.0	44.0	24.0	37.5	10.2	1.2	7.2	145	13.1	290	870	HCAB/U12004+FB3000****
2.2	42.0	44.0	24.0	37.5	10.2	1.2	6.6	145	13.7	319	957	HCAB/U12204+FB3000****

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

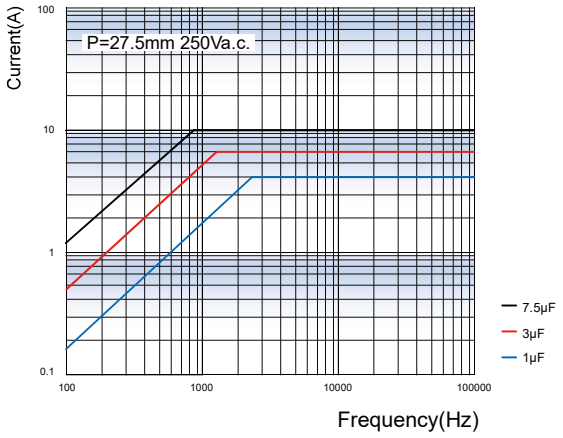
Technical Parameter

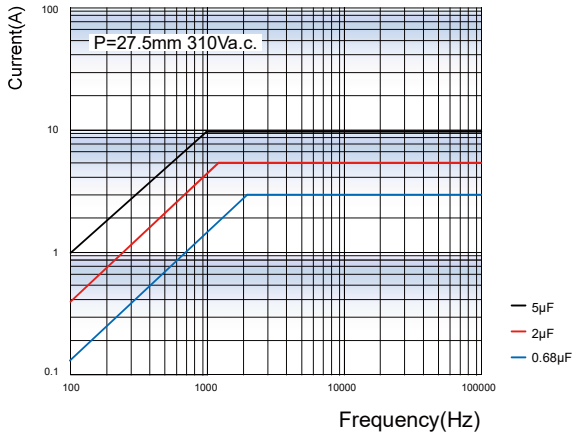
U_{RMS}=600Va.c., U_N=840Va.c., U_{NDC}=1200Vd.c.												
C_N(μF)	W (mm)	H (mm)	T (mm)	P (mm)	P1 (mm)	d (mm)	ESR@10kHz (mΩ)	dv/dt (V/μs)	I_{max}(A)	Î(A)	$Î_S$(A)	Ordering Information
2.5	42.0	45.0	30.0	37.5	20.3	1.2	5.8	145	16.1	362	1086	HCAB/U12504+FA3000****
3.0	42.0	45.0	30.0	37.5	20.3	1.2	4.8	145	17.7	435	1305	HCAB/U13004+FA3000****
3.5	42.0	46.0	35.0	37.5	20.3	1.2	4.1	145	20.1	507	1521	HCAB/U13504+FA3000****
4.0	42.0	50.0	35.0	37.5	20.3	1.2	3.6	145	21.4	580	1740	HCAB/U14004+FA3000****
5.0	42.0	55.0	40.0	37.5	20.3	1.2	2.9	145	24.9	725	2175	HCAB/U15004+FA3000****
6.0	42.0	60.0	45.0	37.5	20.3	1.2	2.4	145	28.5	870	2610	HCAB/U16004+FA3000****
4.5	57.5	45.0	30.0	52.5	20.3	1.2	7.1	95	16.3	427	1281	HCAB/U14504+MA3000****
5.0	57.5	50.0	35.0	52.5	20.3	1.2	6.4	95	18.4	475	1425	HCAB/U15004+MA3000****
5.5	57.5	50.0	35.0	52.5	20.3	1.2	5.8	95	19.4	522	1566	HCAB/U15504+MA3000****
6.0	57.5	55.0	45.0	52.5	20.3	1.2	5.3	95	21.6	570	1710	HCAB/U16004+MA3000****
7.0	57.5	55.0	45.0	52.5	20.3	1.2	4.6	95	23.2	665	1995	HCAB/U17004+MA3000****
8.0	57.5	55.0	45.0	52.5	20.3	1.2	4	95	24.9	760	2280	HCAB/U18004+MA3000****
9.0	57.5	65.0	45.0	52.5	20.3	1.2	3.6	95	27.4	855	2565	HCAB/U19004+MA3000****
10.0	57.5	65.0	45.0	52.5	20.3	12	3.2	95	29.0	950	2850	HCAB/U11005+MA3000****

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

Characteristic Curve (Typical)

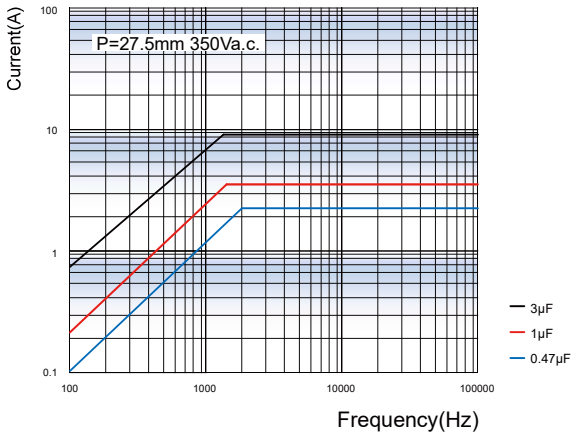
Permissible AC current I_{RMS} versus frequency f (for sonusoidal waveforms Top≤85℃)

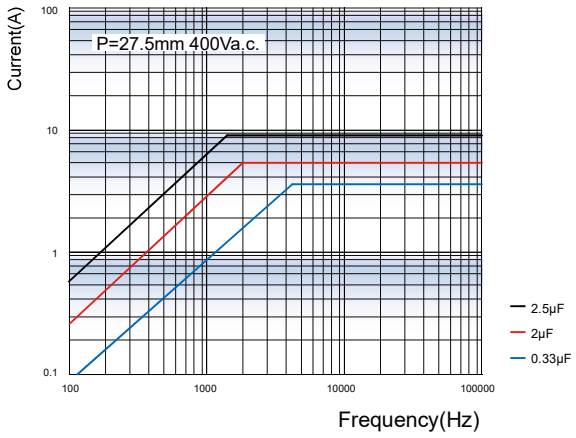


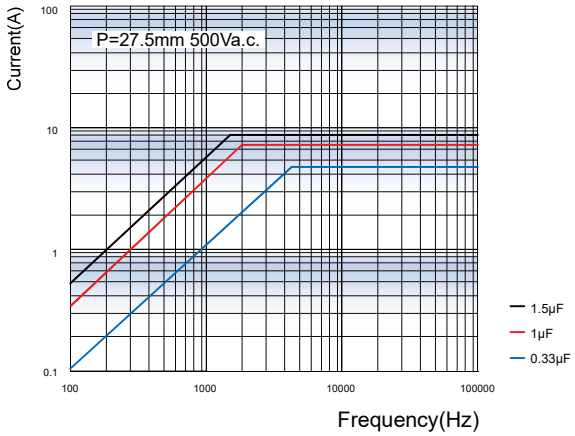


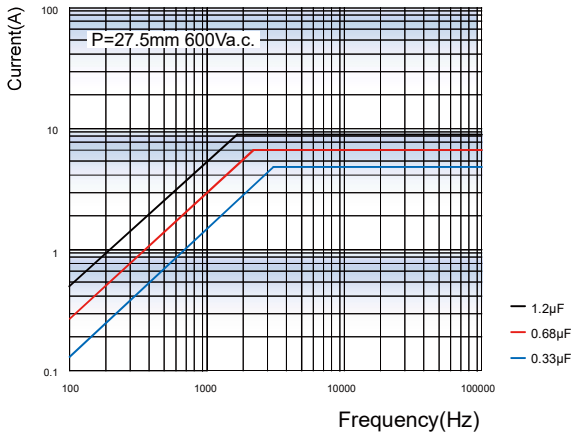
Characteristic Curve (Typical)

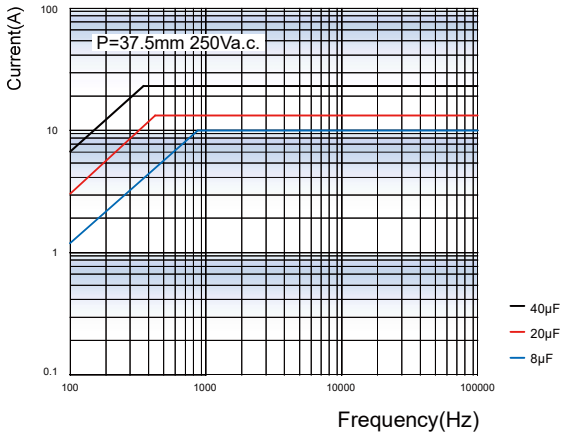
Permissible AC current I_{RMS} versus frequency f (for sonusoidal waveforms Top≤85℃)

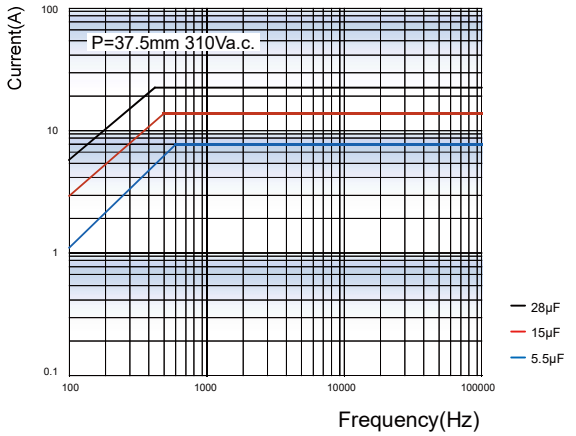






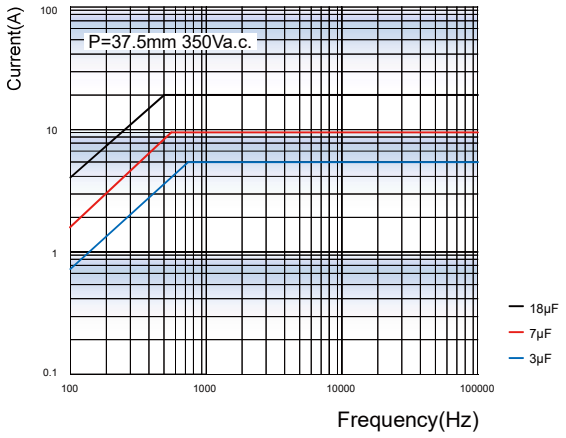


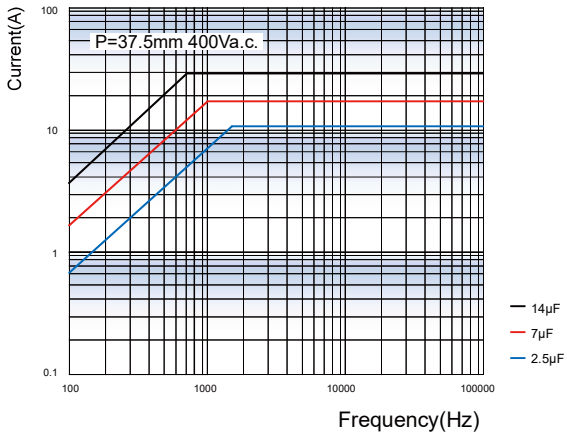


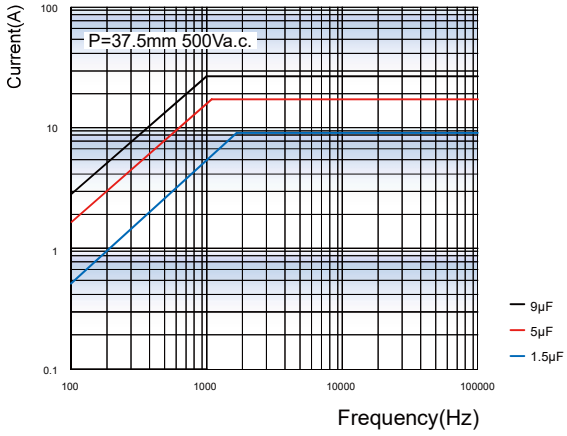


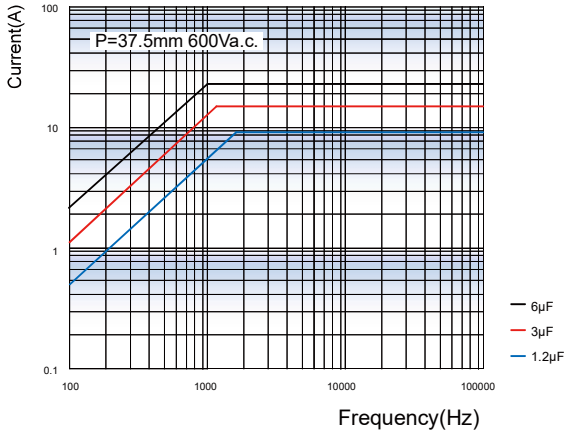
Characteristic Curve (Typical)

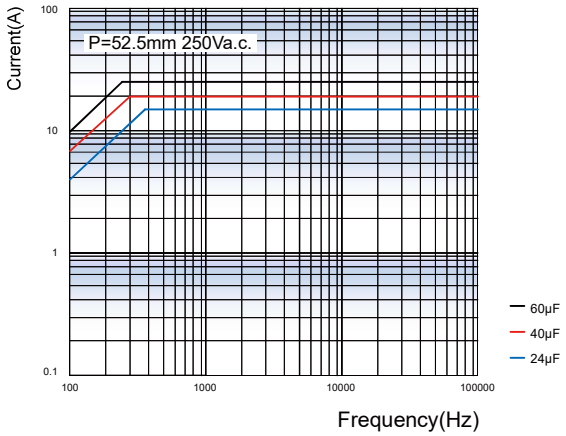
Permissible AC current I_{RMS} versus frequency f (for sonusoidal waveforms Top≤85℃)

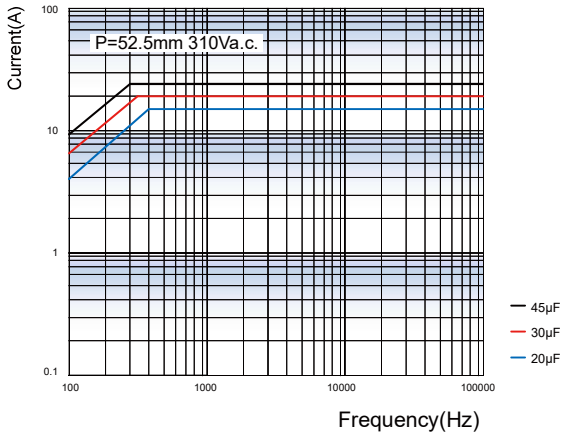






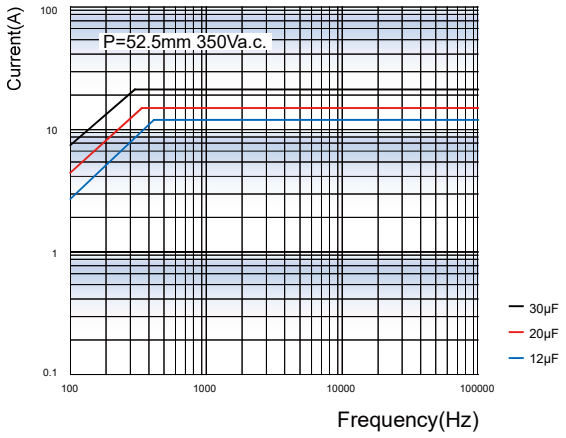


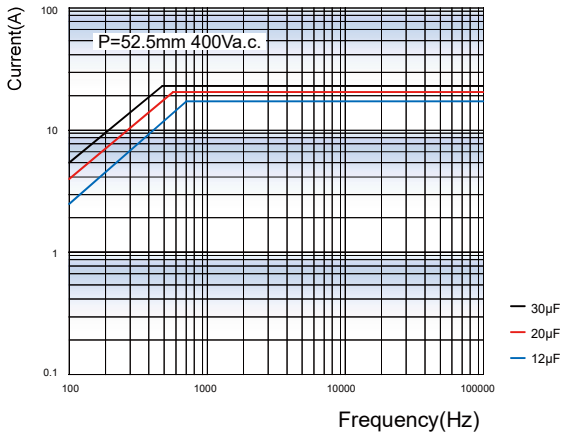


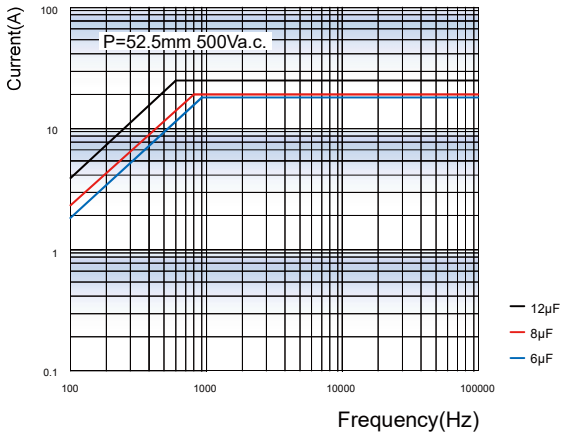


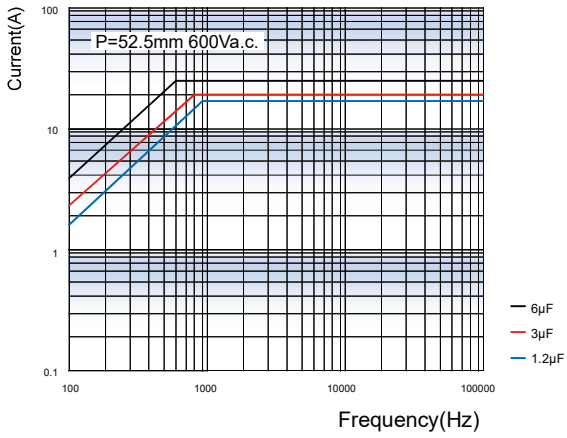
Characteristic Curve (Typical)

Permissible AC current I_{RMS} versus frequency f (for sonusoidal waveforms Top≤85℃)









Impedance Z versus frequency f

