

10 V ... 400 V	100 μ F ... 33 000 μ F	35 (1,378) x 35 (1,378) x 16 (0,630)	- 55°C + 105°C	Long Life Time
450 V	100 μ F ... 220 μ F	35 (1,378) x 50 (1,969) x 16 (0,630)	- 55°C + 85°C	



APPLICATIONS

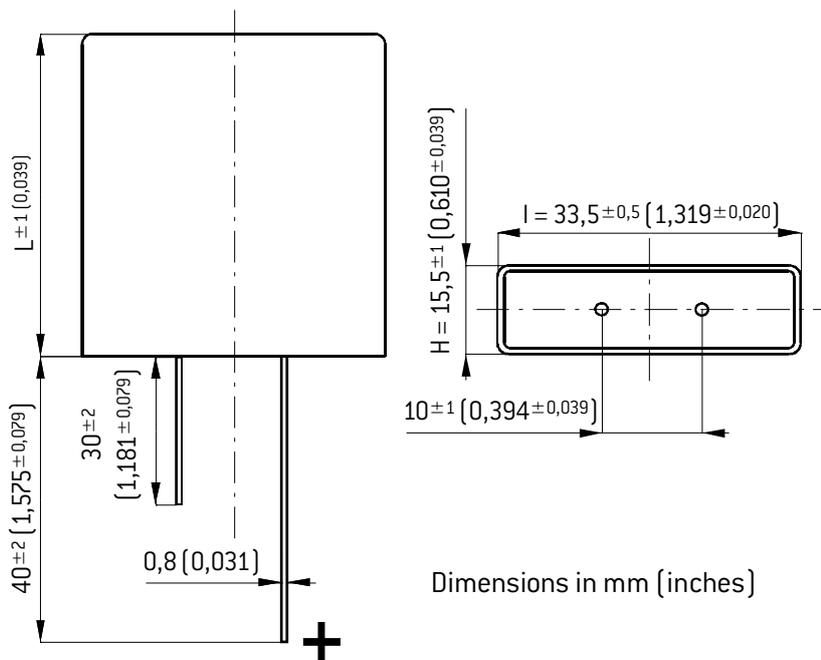
- Low profile printed circuit mounting
- Possible thermal dissipation per conduction through lower and upper surface
- Switch mode power supplies, impulse current

Aluminum case: Tin coated leads

Negative pole marked

Tolerance on capacitance at 20°C: $\pm 20\%$

Operating temperature : - 55°C + 105°C



SPECIFICATIONS

CECC 30300 Long life

IEC 60 384-4 Long life

DIN 41 240 climatic category: - 55 + 105°C

and GPF: - 55°C + 105°C / 56 days

- 55°C + 85°C / 56 days

RESISTANCE TO VIBRATIONS

	Standard
f (Hz)	10 - 2000 Hz
Amplitude	1,5 [0,059]
Acceleration	20 g - 196 m/s ²
t (h)	3 x 2 h

Capacitance (μF)	Case			Tan δ 100 Hz +20°C max. (%)	ESR 100 Hz +20°C Typic (m Ω)	Z 10 kHz +20°C Typic (m Ω)	II +20°C 5 min. max. (mA)	I ~ 100 Hz		Code			
	I mm (inches)	L mm (inches)	H mm (inches)					+40°C max. (A)	+105°C U _R < 450 V +85°C U _R = 450 V (A)				
Rated voltage 10 V													
15000	35	(1,378)	35	(1,378)	16	(0,630)	28	20	18	0,90	16,8	4,5	A 710000
22000	35	(1,378)	50	(1,969)	16	(0,630)	35	17	14	1,30	20	5,8	A 710001
33000	35	(1,378)	50	(1,969)	16	(0,630)	47	15	11	1,98	20	6,1	A 710002
Rated voltage 16 V													
10000	35	(1,378)	35	(1,378)	16	(0,630)	18	19	17	0,96	17,3	4,7	A 710020
15000	35	(1,378)	35	(1,378)	16	(0,630)	25	18	15	1,40	18	4,8	A 710022
22000	35	(1,378)	50	(1,969)	16	(0,630)	30	16	13	2,10	20	5,9	A 710021
Rated voltage 25 V													
6800	35	(1,378)	35	(1,378)	16	(0,630)	17	27	19	1,00	14,5	3,9	A 710040
10000	35	(1,378)	50	(1,969)	16	(0,630)	17	18	15	1,50	20	5,6	A 710041
15000	35	(1,378)	50	(1,969)	16	(0,630)	21	15	13	2,20	20	6,1	A 710042
Rated voltage 35 V													
5600	35	(1,378)	35	(1,378)	16	(0,630)	14	27	19	1,20	14,5	3,9	A 710060
6800	35	(1,378)	35	(1,378)	16	(0,630)	15	24	17	1,40	15,4	4,1	A 710061
10000	35	(1,378)	50	(1,969)	16	(0,630)	17	19	13	2,10	20	5,5	A 710062
Rated voltage 40 V													
4700	35	(1,378)	35	(1,378)	16	(0,630)	12	26	18	1,10	15	4	A 710080
6800	35	(1,378)	50	(1,969)	16	(0,630)	13	21	13	1,60	19	5,2	A 710081
Rated voltage 50 V													
3300	35	(1,378)	35	(1,378)	16	(0,630)	10	33	26	0,99	13	3,5	A 710100
5000	35	(1,378)	35	(1,378)	16	(0,630)	10	20	12	1,50	17	4,5	A 710101
8200	35	(1,378)	50	(1,969)	16	(0,630)	15	20	12	2,50	20	5,3	A 710102
Rated voltage 63 V													
2200	35	(1,378)	35	(1,378)	16	(0,630)	10	42	25	0,83	12	3,2	A 710120
3300	35	(1,378)	50	(1,969)	16	(0,630)	10	31	20	1,20	16	4,3	A 710121
4700	35	(1,378)	50	(1,969)	16	(0,630)	12	28	18	1,80	17	4,5	A 710122
Rated voltage 80 V													
1500	35	(1,378)	35	(1,378)	16	(0,630)	10	52	30	0,72	10,4	2,8	A 710140
2200	35	(1,378)	50	(1,969)	16	(0,630)	10	43	17	1,10	13,6	3,6	A 710141
Rated voltage 100 V													
1000	35	(1,378)	35	(1,378)	16	(0,630)	10	51	35	0,60	10,8	2,8	A 710160
1500	35	(1,378)	50	(1,969)	16	(0,630)	10	36	23	0,90	14,9	4	A 710161
1800	35	(1,378)	50	(1,969)	16	(0,630)	10	29	19	1,1	16,6	4,4	A 710162
Rated voltage 160 V													
470	35	(1,378)	35	(1,378)	16	(0,630)	11	170	130	0,45	5,8	1,6	A 710180
680	35	(1,378)	50	(1,969)	16	(0,630)	11	150	110	0,66	7,3	1,9	A 710181
Rated voltage 200 V													
330	35	(1,378)	35	(1,378)	16	(0,630)	12	250	160	0,39	4,8	1,3	A 710200
470	35	(1,378)	50	(1,969)	16	(0,630)	12	160	120	0,56	7,1	1,9	A 710201
680	35	(1,378)	50	(1,969)	16	(0,630)	12	150	110	0,81	7,3	1,9	A 710202
Rated voltage 250 V													
330	35	(1,378)	35	(1,378)	16	(0,630)	12	260	170	0,50	4,7	1,3	A 710220
470	35	(1,378)	50	(1,969)	16	(0,630)	12	160	120	0,70	7,1	1,9	A 710221
Rated voltage 350 V													
220	35	(1,378)	35	(1,378)	16	(0,630)	10	280	130	0,46	4,6	1,2	A 710240
330	35	(1,378)	50	(1,969)	16	(0,630)	10	180	80	0,69	6,6	1,8	A 710241
Rated voltage 400 V													
100	35	(1,378)	35	(1,378)	16	(0,630)	10	420	260	0,80	3,8	1	A 710260
150	35	(1,378)	35	(1,378)	16	(0,630)	10	280	150	1,00	4,6	1,2	A 710262
220	35	(1,378)	50	(1,969)	16	(0,630)	10	200	130	1,20	6,3	1,7	A 710261
Rated voltage 450 V													
100	35	(1,378)	35	(1,378)	16	(0,630)	10	600	320	0,80	3,1	0,8	A 710280
150	34	(1,339)	50	(1,969)	16	(0,630)	10	420	220	1,00	4,4	1,2	A 710281
220	35	(1,378)	50	(1,969)	16	(0,630)	10	300	160	1,30	5,2	1,4	A 710282

EXPECTED LIFE

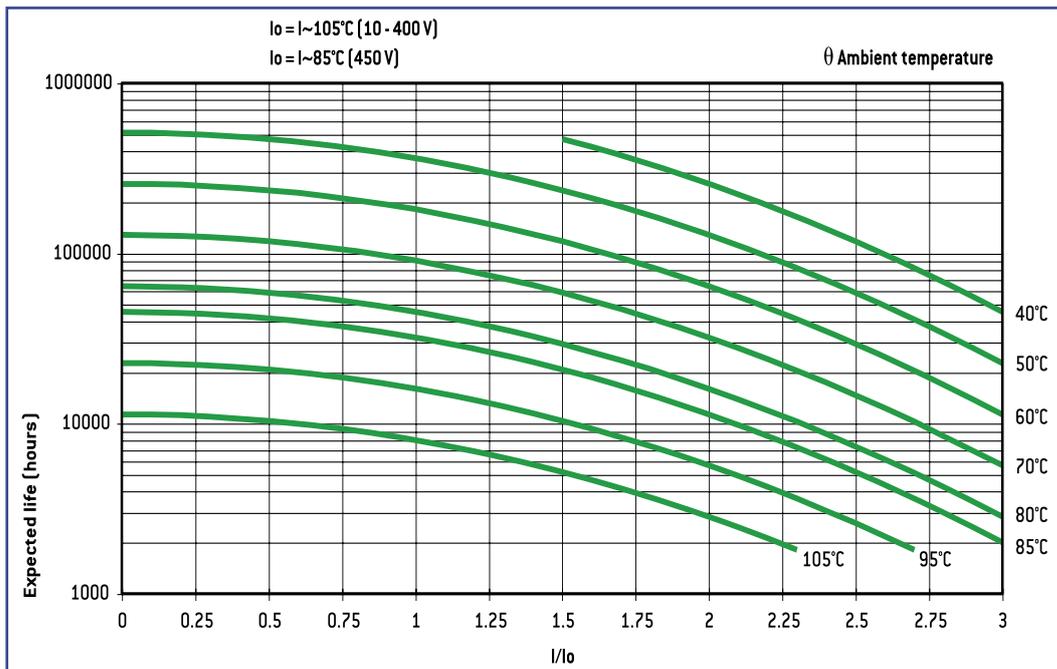
as a function of temperature and ripple current

PERMISSIBLE RIPPLE CURRENT I (R.M.S. VALUE)

versus frequency f:

I ~: permissible r.m.s. current at 100 Hz

f (Hz)	50	100	300	600	1 000	10 000	≥ 50 000
I	0,8 x I~	I~	1,2 x I~	1,3 x I~	1,35 x I~	1,5 x I~	1,6 x I~



RADIAL LEADED