

16 V ... 100 V	470 $\mu$ F ... 47 000 $\mu$ F	$\emptyset$ 22 (0,866) ... $\emptyset$ 35 (1,378)	- 55°C + 125°C	Long Life Time
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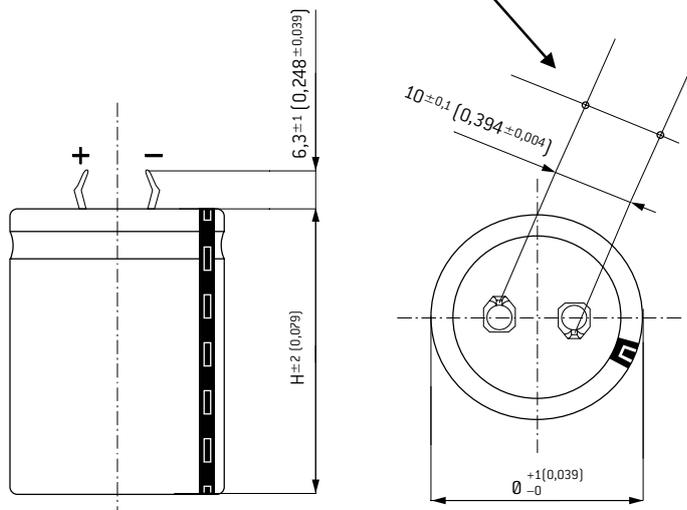
### APPLICATIONS

- High frequency switched mode power supplies
- High ripple current
- Low impedance

Insulating aluminum case pure tin coated  
 Snap-in pins negative  
 Pole marked

Tolerance on capacitance at 20°C : - 20 + 20 %  
 Operating temperature : - 55°C + 125°C

$\emptyset$  PC board holes:  $2 \pm 0,1$  (0,079  $\pm$  0,004)



Dimensions in mm (inches)

Can size	$\emptyset$ mm (inches)		H mm (inches)	
1	22	(0,866)	25	(0,984)
2	22	(0,866)	30	(1,181)
3*	22	(0,866)	40	(1,575)
4*	25	(0,984)	25	(0,984)
5	25	(0,984)	30	(1,181)
6	25	(0,984)	40	(1,575)
7*	25	(0,984)	50	(1,969)
8*	30	(1,181)	25	(0,984)
9*	30	(1,181)	30	(1,181)
10	30	(1,181)	35	(1,378)
11	30	(1,181)	40	(1,575)
12*	30	(1,181)	45	(1,772)
13*	30	(1,181)	50	(1,969)
14*	35	(1,378)	30	(1,181)
15*	35	(1,378)	35	(1,378)
16	35	(1,378)	40	(1,575)
17*	35	(1,378)	45	(1,772)
18	35	(1,378)	50	(1,969)

\* Out of range

Standard pins can be replaced by 4.5 mm (0,177 inches) max pins on request.

### SPECIFICATIONS

NFC 83 110 - Long life  
 CECC 30 300  
 IEC 60 384-4 Long life  
 Climatic category: - 55°C + 125°C / 56 days

### RESISTANCE TO VIBRATIONS

Frequency : 10 – 500 Hz  
 Displacement amplitude or : 0,75 (0,030)  
 max acceleration : 10 g – 98 m/s<sup>2</sup>  
 Duration : 3 x 10 sweep cycles

### WITHSTAND STRENGTH OF INSULATING SLEEVE

Insulating resistance at 20°C between pins and mounting hardware:  
 100 M $\Omega$   
 Test voltage at 50 Hz 1 min. between terminals and mounting hardware: 2000 V  
 Fire resistance: self extinguish 30 s. (IEC 60 695-2-2) Without PVC

Capacitance [ $\mu$ F]	Dimensions		Can size	Tan $\delta$ 100 Hz +20°C max. [%]	ESR 100 Hz +20°C Typic [m $\Omega$ ]	Z 10 kHz +20°C Typic [m $\Omega$ ]	II +20°C 5 min. max. [mA]	I $\sim$ +125°C max.		Code		
	$\emptyset$ mm [inches]	H mm [inches]						100 Hz [A]	10 kHz [A]			
<b>Rated voltage 16/18 V</b>												
4700	22	(0,866)	25	(0,984)	1	20	45	35	0,23	2,7	4,0	A 718000
6800	22	(0,866)	30	(1,181)	2	22	35	28	0,33	3,2	4,9	A 718001
10000	25	(0,984)	30	(1,181)	5	28	30	25	0,48	3,8	5,7	A 718002
15000	25	(0,984)	40	(1,575)	6	38	27	19	0,72	4,5	6,7	A 718003
22000	30	(1,181)	40	(1,575)	11	41	20	17	1,1	5,8	8,7	A 718006
33000	35	(1,378)	40	(1,575)	16	50	16	14	1,6	7,1	11	A 718007
47000	35	(1,378)	50	(1,969)	18	62	14	12	2,2	8,3	12	A 718010
<b>Rated voltage 25/29 V</b>												
3300	22	(0,866)	25	(0,984)	1	16	50	38	0,25	2,5	3,8	A 718020
4700	25	(0,984)	30	(1,181)	5	19	43	31	0,35	3,2	4,7	A 718022
6800	25	(0,984)	40	(1,575)	6	19	30	20	0,51	4,3	6,4	A 718023
10000	30	(1,181)	35	(1,378)	10	28	30	19	0,75	4,5	6,7	A 718025
15000	30	(1,181)	40	(1,575)	11	31	22	17	1,1	5,5	8,3	A 718026
22000	35	(1,378)	50	(1,969)	18	41	20	16	1,7	7,0	10	A 718028
33000	35	(1,378)	50	(1,969)	18	56	18	14	2,4	7,3	11	A 718030
<b>Rated voltage 40/46 V</b>												
2200	22	(0,866)	30	(1,181)	2	12	60	45	0,26	2,5	3,7	A 718041
3300	25	(0,984)	30	(1,181)	5	13	42	32	0,40	3,2	4,8	A 718042
4700	25	(0,984)	40	(1,575)	6	15	33	24	0,56	4,1	6,1	A 718043
6800	30	(1,181)	35	(1,378)	10	19	30	21	0,82	4,5	6,7	A 718045
10000	35	(1,378)	40	(1,575)	16	26	28	19	1,2	5,4	8,0	A 718047
15000	35	(1,378)	50	(1,969)	18	31	22	16	1,8	6,6	10	A 718048
22000	35	(1,378)	50	(1,969)	18	41	20	14	2,6	7	10	A 718050
<b>Rated voltage 50/58 V</b>												
1500	22	(0,866)	25	(0,984)	1	10	70	60	0,23	2,1	3,2	A 718060
2200	25	(0,984)	30	(1,181)	5	9	45	38	0,33	3,1	4,6	A 718062
3300	25	(0,984)	40	(1,575)	6	10	32	27	0,50	4,1	6,2	A 718063
4700	30	(1,181)	35	(1,378)	10	13	30	22	0,71	4,5	6,7	A 718065
6800	30	(1,181)	40	(1,575)	11	17	27	21	1,0	5,0	7,5	A 718066
10000	35	(1,378)	50	(1,969)	18	21	22	17	1,5	6,6	10	A 718068
15000	35	(1,378)	50	(1,969)	18	28	20	14	2,3	7	10	A 718070
<b>Rated voltage 63/72 V</b>												
1000	22	(0,866)	30	(1,181)	2	7	60	46	0,19	2,5	3,7	A 718081
1500	25	(0,984)	30	(1,181)	5	8	50	43	0,28	2,9	4,4	A 718082
2200	25	(0,984)	40	(1,575)	6	8	35	30	0,42	3,9	5,9	A 718083
2700	25	(0,984)	40	(1,575)	6	8	30	25	0,51	4,3	6,4	A 718084
3300	30	(1,181)	40	(1,575)	11	9	30	22	0,62	5,2	7,8	A 718086
4700	35	(1,378)	40	(1,575)	16	12	28	20	0,89	5,4	8,0	A 718087
6800	35	(1,378)	50	(1,969)	18	16	25	19	1,3	6,2	9,3	A 718088
10000	35	(1,378)	50	(1,969)	18	22	23	18	1,9	6,5	9,7	A 718090
<b>Rated voltage 100/115 V</b>												
470	22	(0,866)	30	(1,181)	2	8	190	130	0,14	1,4	2,1	A 718101
680	25	(0,984)	30	(1,181)	5	10	150	100	0,20	1,7	2,5	A 718102
1000	25	(0,984)	40	(1,575)	6	10	100	70	0,30	2,3	3,5	A 718103
1500	30	(1,181)	35	(1,378)	10	10	70	54	0,45	2,9	4,4	A 718105
2200	35	(1,378)	40	(1,575)	16	12	60	46	0,66	3,7	5,5	A 718107
3300	35	(1,378)	50	(1,969)	18	17	55	42	1,0	4,2	6,3	A 718108
4700	35	(1,378)	50	(1,969)	18	22	50	38	1,4	4,4	6,6	A 718110

### EXPECTED LIFE

as a function of temperature and ripple current

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

versus frequency f:

I<sub>~</sub>: 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 <sub>~</sub>	I <sub>~</sub>	1,2 x I <sub>~</sub>	1,3 x I <sub>~</sub>	1,35 x I <sub>~</sub>	1,5 x I <sub>~</sub>	1,6 x I <sub>~</sub>

