

# SNAPSI C 105 4P

8 000 h / 105°C

16 V ... 500 V	330 μF ... 150 000 μF	∅ 35 - 45 mm	- 55°C + 105°C	Long Life Time
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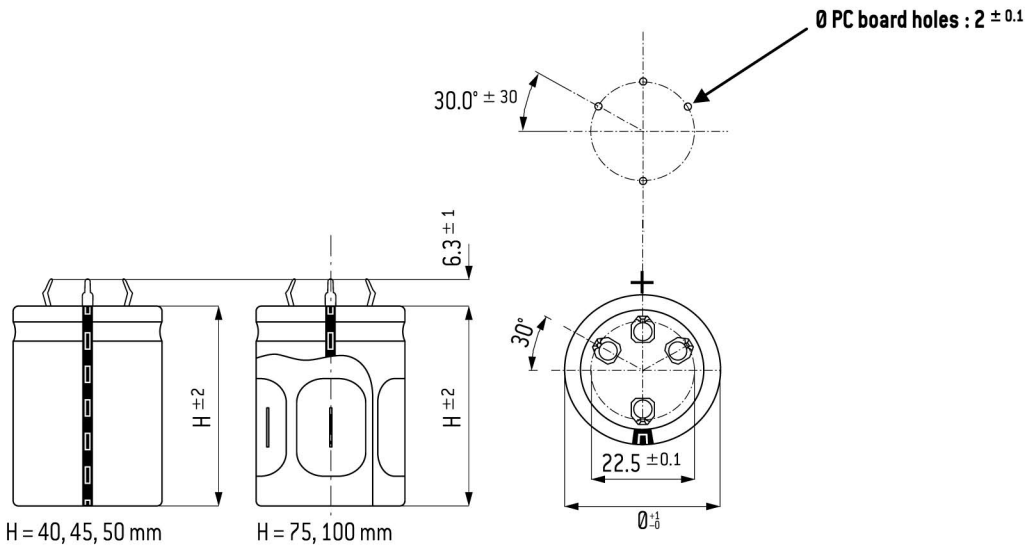
## APPLICATIONS

- Printed circuit mounting
- Switch mode power supplies
- Impulse current

Fixing : SNAP-IN pins

Tolerance on capacitance at 20°C : ± 20 %  
 Operating temperature : - 55°C + 105°C

## 4 SNAP-IN terminals



Dummy pins near positive terminal are for mechanical support only.  
 They must be electrically insulated from the positive and the negative terminals.

Can size	∅ (mm)	H (mm)
1	35	50
2	35	75
3	35	100
4	40	40
5	40	50
6	40	75
7	40	100
8	45	45
9	45	50
10	45	75
11	45	100

## RESISTANCE TO VIBRATIONS

Hb (mm)	H = 40, 45, 50	H = 75, 100 *
f (Hz)	10 - 55 Hz	10 - 2000 Hz
Amplitude	0,75 mm	1,5 mm
Acceleration	10 g - 98 m/s <sup>2</sup>	20 g - 196 m/s <sup>2</sup>
t (h)	3 x 2 h	3 x 2 h

\* and on request for : H = 40, 45, 50

## SPECIFICATIONS

CECC 30 300 Long life  
 DIN 41 240 - Climatic category: - 55 + 105°C / 56 days  
 IEC 60 384.4 long life  
 Standard endurance test at U<sub>R</sub> : 2000 h 105°C

## WITHSTAND STRENGTH OF INSULATING SLEEVE

Insulation resistance at 20°C between pins and mounting hardware : 100 MΩ  
 Test voltage at 50 Hz 1 min. between terminals and mounting hardware : 2000 V  
 Fire resistance : self extinguish 15 s (IEC 60 695-2-2)

## SNAPSIC 105 4P

8 000 h / 105°C

Capacitance [ $\mu$ F]	Dimension		Can size	Tan $\delta$ 100 Hz +20°C max. [%]	ESR 100 Hz +20°C Typic [m $\Omega$ ]	Z 10 kHz +20°C Typic [m $\Omega$ ]	I +20°C 5 min. max. [mA]	I $\sim$ 100 Hz		Code
	$\emptyset$ [mm]	H [mm]						+40°C max. [A]	+85°C max. [A]	
<b>Rated voltage / Peak voltage: 16/18 V</b>										
47000	35	50	1	55	15	15	4.5	20	6.6	A 715020
47000	40	40	4	55	15	15	4.5	20	7.1	A 715030
68000	35	50	1	67	12	10	6.5	20	7.3	A 715021
100000	35	75	2	82	10	8	9.6	20	9.6	A 715023
100000	45	45	8	82	10	8	9.6	20	8.9	A 715035
150000	40	100	7	122	10	8	14.0	20	12.0	A 715034
<b>Rated voltage / Peak voltage: 25/30 V</b>										
33000	35	50	1	70	20	18	5.0	20	5.7	A 715040
33000	40	40	4	100	38	20	5.0	15	4.1	A 715050
47000	35	75	2	62	15	13	7.1	20	7.8	A 715043
47000	40	50	5	62	15	13	7.1	20	7.1	A 715051
68000	40	75	6	67	12	10	10.0	20	9.4	A 715053
100000	40	100	7	82	10	8	15.0	20	12.0	A 715054
<b>Rated voltage / Peak voltage: 35/40 V</b>										
22000	35	50	1	43	24	17	5.2	19	5.2	A 715060
22000	40	40	4	65	36	24	5.2	16	4.2	A 715070
33000	35	75	2	47	15	13	7.9	20	7.8	A 715063
33000	45	45	8	47	15	13	7.9	20	7.3	A 715075
47000	35	100	3	53	12	10	11.0	20	10.0	A 715064
47000	40	75	6	53	12	9	11.0	20	9.4	A 715073
<b>Rated voltage / Peak voltage: 50/58 V</b>										
15000	35	50	1	38	26	18	4.5	19	5.0	A 715080
15000	40	40	4	38	26	18	4.5	18	4.9	A 715090
22000	35	75	2	40	22	16	6.6	20	6.5	A 715083
22000	40	50	5	48	35	17	6.6	17	4.6	A 715091
33000	40	75	6	48	18	14	9.9	20	7.7	A 715093
47000	40	100	7	57	15	11	14.0	20	9.6	A 715094
<b>Rated voltage / Peak voltage: 63/76 V</b>										
10000	35	50	1	25	25	20	3.0	19	5.1	A 715100
10000	40	40	4	30	35	22	3.0	16	4.2	A 715110
15000	35	75	2	28	22	18	5.7	20	6.5	A 715103
15000	45	45	8	28	22	18	5.7	20	6.0	A 715115
22000	35	100	3	32	18	15	8.3	20	8.2	A 715104
22000	40	75	6	32	18	13	8.3	20	7.7	A 715113
33000	45	75	10	43	16	11	11.0	20	8.7	A 715117
47000	45	100	11	50	13	9	13.0	20	9.7	A 715118
<b>Rated voltage / Peak voltage: 80/92 V</b>										
6800	35	50	1	16	25	20	3.2	19	5.1	A 715120
6800	40	40	4	22	35	25	3.2	16	4.2	A 715130
8200	35	50	1	19	25	18	4.0	19	5.1	A 715121
10000	35	75	2	21	25	21	4.8	20	6.1	A 715123
10000	45	45	8	21	25	21	4.8	20	5.6	A 715135
15000	35	100	3	24	20	16	7.2	20	7.7	A 715124
15000	40	75	6	24	20	13	7.2	20	7.3	A 715133
<b>Rated voltage / Peak voltage: 100/115 V</b>										
4700	35	50	1	11	28	20	2.8	18	4.8	A 715140
4700	40	40	4	15	38	25	2.8	15	4.1	A 715150
6800	35	75	2	19	35	23	4.0	19	5.1	A 715143
6800	45	45	8	19	35	23	4.0	18	4.8	A 715155
10000	35	100	3	24	30	21	6.0	20	6.3	A 715144
10000	40	75	6	24	30	20	6.0	20	6.0	A 715153
<b>Rated voltage 160/185 V</b>										
2200	35	50	1	15	60	40	2.1	13	3.4	A 715160
2200	40	40	4	15	60	40	2.1	12	3.2	A 715170
3300	35	75	2	10	40	30	3.2	18	4.8	A 715163
3300	45	45	8	10	40	30	3.2	17	4.4	A 715175
4700	40	75	6	13	35	27	4.5	20	5.5	A 715173
<b>Rated voltage 200/230 V</b>										
1500	35	50	1	14	90	60	1.8	10.0	2.7	A 715180
2200	35	50	1	14	65	45	2.6	12.0	3.2	A 715181
3300	35	75	2	16	60	40	4.0	15.0	3.9	A 715182
3300	45	45	8	16	60	40	4.0	14.0	3.6	A 715194
4700	40	75	6	20	50	30	5.6	17.0	4.6	A 715192
6800	45	100	11	21	30	20	8.2	20.0	7.2	A 715197

# SNAPSIK 105 4P

8 000 h / 105°C

Capacitance ( $\mu$ F)	Dimension		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 $\sim$ 100 Hz		Code
	$\varnothing$ (mm)	H (mm)						+40°C max. (A)	+85°C max. (A)	
<b>Rated voltage / Peak voltage: 250/290 V</b>										
1500	35	50	1	10	70	50	2.3	11,0	3,0	A 715201
1500	40	40	4	12	90	60	2.3	10,0	2,6	A 715209
2200	35	75	2	12	65	45	3.3	14,0	3,8	A 715202
2200	40	50	5	12	65	45	3.3	13,0	3,4	A 715211
3300	40	75	6	12	45	30	5.0	18,0	4,9	A 715212
4700	45	75	10	13	35	25	7.0	20,0	5,9	A 715217
<b>Rated voltage / Peak voltage: 350/385 V</b>										
680	35	50	1	10	120	80	1.4	8,7	2,3	A 715220
1500	35	75	2	12	70	40	3.2	14,0	3,6	A 715222
1500	45	50	9	12	90	60	3,2	12,0	3,1	A 715235
2200	45	75	10	12	54	33	4.6	18,0	4,8	A 715236
3300	45	100	11	14	45	30	6.9	20,0	5,9	A 715237
<b>Rated voltage / Peak voltage: 400/450 V</b>										
560	35	50	1	12	220	160	1.9	6.4	1.7	A 715260
680	35	75	2	12	170	130	2.1	8.7	2.3	A 715263
680	40	40	4	12	190	140	2.1	6.8	1.8	A 715272
1000	35	75	2	12	130	90	2.5	10.0	2.7	A 715265
1000	35	100	3	12	120	80	2.5	12.0	3.2	A 715264
1000	45	45	8	12	140	100	2.5	8.9	2.4	A 715275
1500	40	100	7	12	90	60	3.1	15.0	3.9	A 715274
1500	45	75	10	14	100	70	3.1	13.0	3.5	A 715276
2200	45	100	11	16	90	60	3.8	16.0	4.2	A 715277
<b>Rated voltage / Peak voltage: 450/500 V</b>										
470	35	50	1	10	200	130	1.8	6,7	1,8	A 715280
470	40	40	4	10	200	130	1.8	6,7	1,8	A 715290
560	40	50	5	10	170	110	2.0	7,9	2,1	A 715291
680	35	75	2	13	140	100	2.2	9,6	2,6	A 715283
680	45	45	8	13	150	110	2.2	8,6	2,3	A 715295
820	45	50	9	13	140	100	2.4	9,3	2,5	A 715296
1000	35	100	3	13	130	90	2.7	11,0	3,0	A 715284
1000	40	75	6	13	140	100	2.7	10,0	2,8	A 715292
1500	40	100	7	13	110	80	3.3	13,0	3,5	A 715293
<b>Rated voltage / Peak voltage: 500/550 V</b>										
330	35	50	1	10	350	250	1.6	5.1	1.4	A 715301
470	40	50	5	13	340	240	1.9	5.6	1.5	A 715308
560	45	45	8	16	340	240	2.1	5.7	1.5	A 715318
680	40	75	6	14	240	200	2.3	7.9	2.1	A 715309
1000	40	100	7	16	190	140	2.8	10.0	2.7	A 715312
1000	45	75	10	16	160	120	2.8	10.0	2.8	A 715319

## EXPECTED LIFE

as a function of temperature and ripple current

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

versus frequency f : I $\sim$  : permissible r.m.s. current at 100 Hz

f (Hz)	50	100	300	600	1 000	10 000	$\geq$ 50 000
I	0,8 x I $\sim$	I $\sim$	1,2 x I $\sim$	1,3 x I $\sim$	1,35 x I $\sim$	1,5 x I $\sim$	1,6 x I $\sim$

