

SN Series

PCB Snap-in Terminal Type 85°C

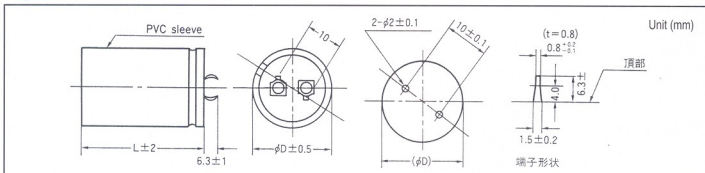
Features

- Directly mountable on printed circuit board without holders.
- Smaller low profile sizes than ordinary capacitors.
- Terminal spacing fixed at 10mm for PC board plug in.
- Aluminum case designed explosion-proof vent.

Specifications

Items	Performance Characteristics						
Voltage Range	10 to 100V DC				160 to 450V DC		
Capacitance Range	470 to 68000 μ F				47 to 27000 μ F		
Temperature Range	-40 to +85°C				-25 to +85°C		
Capacitance Tolerance	-20~+20°C (120Hz, +20°C)						
Leakage Current	1 $\leq\sqrt{CV}$ (μ A) (after 5 minutes)						
Dissipation Factor (tan δ) (120Hz, +20°C)	Less than the value under table (at 20°C, 120Hz)						
	W V μ F	10~16	25~35	25~35	50~63	160~250	315~450
	47~330					0.15	0.20
	470~3300	0.25	0.20	0.20	0.20	0.15	0.20
	4700~6800	0.35	0.30	0.30	0.25		
	10000~22000	0.40	0.35	0.30			
	27000~47000	0.45	0.40	0.35			
	56000~68000	0.50	0.45				
	Stability at Low Temperature	Impedance ratio max. 120Hz					
Working voltage (v)		25~100		160~250		350~450	
-25°C/+20°C		4		3		8	
-40°C/+20°C		15		12			
Load Life	The following specifications shall be satisfied when the capacitors are restore to 20°C after the rated voltage applied for 2000 hours at 85°C.						
	Leakage current			Initial specified value or less			
	Capacitance change			Within $\pm 20\%$ of initial value			
	Dissipation Factor (tan δ)			200% of initial specified value			
Shelf Life	At 85°C no voltage applied after 500 hours the capacitors shall meet the following limits						
	Leakage current			$\leq 200\%$ of initial specified value			
	Capacitance change			$\leq \pm 20\%$ of initial value			
	Dissipation Factor (tan δ)			$\leq 150\%$ of initial specified value			
Others	Satisfies characteristic W of JIS C 5141-1982						

Diagram of Dimensions



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Case Size: $\phi D \times L$ (mm)
R.C.: (at 85°C, 120Hz)
Max ripple current: A (rms)

Case Size Table & Permissible Ripple Current

W.V.	Cap. (μ F)	Case Size	R.C.
10 (13)	8,200	20 × 30	2.40
		22 × 25	2.45
	10,000	20 × 30	2.70
		25 × 25	2.60
	12,000	20 × 30	2.80
		22 × 25	2.70
	15,000	22 × 30	3.15
		30 × 25	3.00
	22,000	22 × 40	3.80
		30 × 30	3.45
16 (20)	33,000	25 × 40	5.00
		35 × 30	4.90
	47,000	25 × 50	6.00
		30 × 45	6.50
	68,000	30 × 50	6.65
		20 × 30	2.20
	4,700	22 × 25	1.80
		20 × 30	2.45
	6,800	22 × 25	2.40
		20 × 30	2.75
25 (32)	8,200	22 × 25	2.70
		22 × 30	3.00
	10,000	25 × 25	2.85
		22 × 40	3.30
	12,000	25 × 26	3.15
		22 × 40	3.60
	15,000	25 × 31	3.55
		22 × 40	4.34
	18,000	25 × 36	4.20
		22 × 46	4.25
35 (44)	22,000	25 × 36	4.00
		25 × 40	6.50
	27,000	30 × 36	6.30
		25 × 50	6.50
	33,000	30 × 40	5.00
		30 × 46	8.10
	39,000	35 × 36	7.50
		30 × 50	7.50
	47,000	35 × 45	7.00
		30 × 50	10.00
50 (63)	56,000	35 × 46	9.50
		35 × 50	10.05
	68,000	20 × 30	2.05
		22 × 25	2.10
	3,300	20 × 30	2.50
		25 × 25	2.30
	56,000	22 × 31	2.60
		22 × 30	2.85
	6,800	25 × 26	2.70
		22 × 40	3.15
63 (79)	8,200	25 × 26	3.00
		22 × 40	3.45
	10,000	25 × 31	3.15
		22 × 50	3.80
	12,000	25 × 40	3.75
		22 × 50	3.80
	15,000	25 × 45	3.60

W.V.	Cap. (μ F)	Case Size	R.C.
25 (32)	18,000	25 × 50	4.70
		30 × 41	4.50
	22,000	25 × 50	4.85
		35 × 30	5.20
	27,000	30 × 46	5.90
		35 × 36	6.50
	33,000	30 × 50	8.95
		35 × 42	8.80
	39,000	35 × 50	9.00
		22 × 25	2.18
35 (44)	2,200	20 × 30	2.10
		22 × 25	2.05
	3,300	22 × 30	2.50
		22 × 30	2.45
	4,700	25 × 26	2.40
		22 × 40	3.00
	6,800	25 × 30	2.90
		22 × 40	3.45
	8,200	25 × 30	3.25
		22 × 46	3.50
50 (63)	10,000	25 × 40	3.40
		25 × 40	3.85
	12,000	35 × 35	3.70
		25 × 50	4.50
	15,000	30 × 40	4.10
		30 × 46	4.80
	18,000	35 × 37	4.60
		30 × 50	5.70
	22,000	35 × 42	4.90
		35 × 47	5.70
63 (79)	27,000	35 × 60	6.45
		22 × 16	1.40
	1,500	25 × 25	1.90
		25 × 25	2.00
	2,200	22 × 31	2.30
		22 × 31	2.50
	2,700	25 × 26	2.40
		22 × 36	3.00
	3,300	25 × 31	2.90
		22 × 40	3.00
50 (63)	5,600	25 × 36	2.80
		22 × 50	3.00
	6,800	25 × 40	2.85
		35 × 35	3.80
	8,200	25 × 50	3.90
		30 × 40	3.75
	10,000	30 × 50	4.55
		35 × 40	4.35
	12,000	30 × 50	5.30
		35 × 42	4.70
63 (79)	15,000	35 × 47	5.30
		35 × 52	5.80
	18,000	22 × 30	1.50
		22 × 25	1.45
	22,000	22 × 30	1.80
		22 × 25	1.75

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Case Size: $\phi D \times L$ (mm)

R.C.: (at 85°C, 120Hz)

Max ripple current: A (rms)

Case Size Table & Permissible Ripple Current

W.V.	Cap. (μ F)	Case Size	R.C.
63 (79)	2,200	22 × 30	2.10
		25 × 26	2.00
	2,700	22 × 36	2.80
		25 × 31	2.70
	3,300	22 × 40	2.81
		25 × 31	2.76
	3,900	22 × 40	3.20
		25 × 36	3.10
	4,700	22 × 50	3.20
		25 × 40	3.11
	5,600	25 × 46	3.80
		30 × 36	3.60
80 (100)	6,800	25 × 50	3.68
		30 × 40	3.54
	8,200	30 × 46	3.99
		35 × 37	3.81
	10,000	35 × 42	4.48
		35 × 52	5.12
	12,000	22 × 25	1.30
		22 × 26	1.60
	1,000	22 × 30	1.35
		22 × 31	1.80
	1,500	25 × 26	1.75
		22 × 36	1.80
100 (125)	1,800	25 × 31	1.60
		22 × 41	2.50
	2,200	25 × 31	2.30
		22 × 46	2.80
	2,700	25 × 36	2.65
		22 × 50	3.30
	3,300	25 × 41	3.12
		25 × 46	3.40
	3,900	30 × 36	3.10
		25 × 50	3.60
	4,700	30 × 41	3.45
		30 × 46	3.80
100 (125)	5,600	35 × 37	3.65
		30 × 51	4.50
	6,800	35 × 42	3.84
		35 × 52	4.90
	8,200	20 × 30	1.30
		22 × 25	1.15
	4,700	22 × 25	1.53
		22 × 30	1.55
	820	25 × 26	1.54
		22 × 30	2.20
	1,000	25 × 25	1.71
		22 × 36	2.30
100 (125)	1,200	25 × 31	2.20
		22 × 40	2.54
	1,500	25 × 31	2.38
		22 × 46	2.20
	1,800	25 × 41	2.05
		22 × 50	3.07
	2,200	25 × 41	2.77
		25 × 46	3.15
	2,700	30 × 36	3.00

W.V.	Cap. (μ F)	Case Size	R.C.
100 (125)	3,300	25 × 50	3.39
		30 × 41	3.27
	3,900	30 × 46	3.50
		35 × 37	3.30
	4,700	30 × 51	3.70
		35 × 42	3.50
	5,600	35 × 47	3.90
		35 × 50	4.85
	8,200	35 × 60	5.30
		35 × 70	5.49
	10,000	40 × 60	5.49
		20 × 30	1.20
160 (200)	180	22 × 25	1.05
		22 × 26	1.30
	270	22 × 30	1.14
		25 × 25	1.11
	330	22 × 31	1.71
		25 × 26	1.58
	390	22 × 31	1.53
		25 × 26	1.45
	470	22 × 35	1.67
		25 × 31	1.58
	560	22 × 40	1.95
		25 × 36	1.87
200 (250)	680	22 × 50	2.36
		25 × 36	2.05
	820	25 × 45	2.62
		30 × 36	2.55
	1,000	25 × 50	3.40
		30 × 36	3.20
	1,200	30 × 45	3.35
		35 × 37	3.28
	1,500	30 × 51	4.40
		35 × 42	3.59
	1,800	35 × 51	4.70
		35 × 60	4.80
200 (250)	2,200	20 × 30	2.00
		22 × 25	1.85
	2,700	20 × 30	1.00
		22 × 25	0.97
	150	22 × 26	1.50
		22 × 30	1.29
	220	25 × 25	1.23
		22 × 40	1.74
	270	25 × 31	1.55
		22 × 40	2.00
	330	25 × 36	1.82
		22 × 46	2.14
200 (250)	470	25 × 36	2.08
		25 × 50	2.59
	560	30 × 36	2.55
		25 × 52	2.99
	680	30 × 42	2.87
		30 × 46	4.25
	820	35 × 37	4.08
		30 × 51	5.30
	1,000	35 × 42	5.15

PCB Snap-in Terminal Type 85°C

Max ripple current: A (rms)

W.V.	Cap. (μ F)	Case Size	R.C.	
200 (250)	1,800	35 × 47	5.80	
	2,200	35 × 51	6.50	
250 (300)	120	20 × 30	0.90	
		22 × 25	0.75	
	150	20 × 30	1.00	
		22 × 25	0.97	
	180	22 × 26	1.10	
		22 × 30	1.35	
	220	25 × 25	1.09	
		22 × 31	1.11	
	270	25 × 25	1.05	
		22 × 40	1.58	
	330	25 × 31	1.42	
		22 × 41	2.00	
	390	25 × 36	1.85	
		22 × 46	2.08	
	470	25 × 41	1.93	
		25 × 45	2.29	
	560	30 × 36	2.22	
		25 × 50	2.68	
	680	30 × 40	2.46	
		30 × 45	3.11	
315 (365)	820	35 × 40	2.83	
		30 × 50	3.60	
	1,000	35 × 42	3.35	
		35 × 46	4.00	
	1,200	22 × 30	0.63	
		25 × 25	0.58	
	1,500	22 × 50	1.38	
		30 × 30	1.25	
	220	25 × 50	2.08	
		35 × 30	1.85	
	470	30 × 50	2.96	
		22 × 25	0.53	
	68	22 × 25	0.59	
		22 × 30	0.66	
	100	25 × 25	0.63	
		22 × 31	0.70	
	350 (400)	120	25 × 26	0.68
			22 × 35	0.86
		150	25 × 31	0.82
			22 × 41	0.90
180		25 × 36	0.85	
		22 × 45	1.17	
220		25 × 41	1.06	
		25 × 46	1.60	
270		30 × 36	1.40	
		25 × 50	1.60	
330		30 × 41	1.53	
		25 × 50	2.00	
390		30 × 46	1.85	
		30 × 50	2.01	
470		35 × 40	1.92	
		35 × 45	2.31	
560		35 × 52	2.90	
		35 × 52	2.90	

[illegible]