

Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

FEATURES

1. Highly reliable capacitors that withstand under high ripple current.
2. Two or three dimensions with same ratings.
3. Aluminum case designed explosion-proof vent.
4. Best for switching power supplies.



SPECIFICATIONS

Item	Performance Characteristics								
Operating Temperature Range	-40 to +105°C				-25 to +105°C				
Rated Working Voltage Range	10 to 100V				160 to 500V				
Nominal Capacitance Range	47 ~ 56000µF								
Capacitance Tolerance	±20% (120Hz, +20°C)								
Leakage Current	$I \leq 3 \sqrt{CV}$ (µA) after 5 minutes application of rated working voltage at +20°C								
Dissipation Factor tan δ (120Hz, +20°C)	Working Voltage (V)	10	16	25	35	50	63	80	100
	tan δ (max.)	0.55	0.50	0.45	0.35	0.30	0.30	0.25	0.20
	Working Voltage (V)	160 ~ 220	250	315 ~ 385	400 ~ 500				
	tan δ (max.)	0.15	0.15	0.15	0.20				
	For capacitance value > 33000µF, add following calculated value: $\frac{(\text{rated capacitance}) - 33000\mu\text{F}}{10000\mu\text{F}} \times 0.1$								
Low Temperature Characteristics	Impedance ratio max. at 120Hz								
	Working Voltage (V)	10	16	25	35	50	63	80	100
	Z-25°C / Z+20°C	6	6	6	6	4	3	3	3
	Z-40°C / Z+20°C	15	15	15	10	8	6	6	6
	Working Voltage (V)	160	200 ~ 220	250	315 ~ 385	400	450	500	
Z-25°C / Z+20°C	8	8	8	8	8	8	8		
Z-40°C / Z+20°C	-	-	-	-	-	-	-		
High Temperature Loading	Testing time	: 2000 hours			Post test requirements at +20°C				
	Testing temp.	: +105°C			Leakage current : ≤ Initial specified value				
	Testing condition	: Rated DC working voltage with the max. ripple current			Cap. change : within ±20% of initial measured value				
					tan δ : ≤ 200% of initial specified value				
Shelf Life	At 105°C no voltage applied after 1000 hours and then being stabilized at 20°C the capacitors shall meet the following limits								
	Leakage current : ≤ Initial specified value								
	Cap. change : within ±15% of initial measured value								
	tan δ : ≤ 150% of initial specified value								
Others	JIS C - 5101 (IEC 60384)								

RIPPLE CURRENT MULTIPLIER

Temperature Coefficient	Frequency Coefficient
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- 1) Maximum rms ripple current at 120Hz, 105°C are given in the table.
- 2) Temperature multiplying factor:
Where capacitors are operated at temperature other than 105°C, the maximum ripple current must be multiplied by the figure shown in the table below.

Temperature(°C)	20 ~ 45	65	85	105
Factor	2.00	1.89	1.52	1.00

- 3) Frequency multiplying factor:
If capacitors are used to filter circuits at a frequency other than 120Hz, the maximum ripple current must be multiplied by the figure shown in the table below.

Freq.(Hz)	60	120	1K	10 ~ 50K
10 ~ 100V	0.90	1.00	1.15	1.25
160 ~ 250V	0.80	1.00	1.25	1.47
315 ~ 500V	0.80	1.00	1.30	1.47

Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

DIMENSIONS

Voltage (Code)		10V (1A)		16V (1C)		25V (1E)		35V (1V)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
2700	278							20 x 25	1.62
3300	338							20 x 30	1.94
								22 x 25	1.90
3900	398					20 x 25	1.72	20 x 35	2.02
								22 x 30	2.00
4700	478					20 x 30	2.04	20 x 40	2.21
						22 x 25	2.00	22 x 35	2.20
								25 x 25	2.20
5600	568			20 x 25	1.89	20 x 35	2.23	22 x 35	2.40
						22 x 30	2.20	25 x 30	2.40
6800	688	20 x 25	1.41	20 x 30	2.25	20 x 40	2.72	22 x 40	2.60
				22 x 25	2.20	22 x 30	2.40	25 x 35	2.60
						25 x 25	2.40	30 x 25	2.78
8200	828	20 x 30	1.67	20 x 35	2.43	22 x 35	2.70	22 x 50	2.90
				22 x 30	2.40	25 x 30	2.70	25 x 40	2.90
						30 x 25	2.70	30 x 30	2.90
10000	109	20 x 30	1.88	20 x 40	2.79	22 x 40	3.00	25 x 45	3.20
		22 x 25	1.80	22 x 30	2.60	25 x 35	3.00	30 x 35	3.20
				25 x 25	2.60	30 x 30	3.00		
12000	129	20 x 35	2.23	22 x 35	2.90	22 x 50	3.20	25 x 50	3.50
		22 x 30	2.20	25 x 30	2.90	25 x 40	3.20	30 x 40	3.50
		25 x 25	2.20	30 x 25	2.90	30 x 30	3.20	35 x 30	3.50
15000	159	20 x 40	2.31	22 x 40	3.20	25 x 45	3.60	30 x 45	3.90
		22 x 35	2.30	25 x 35	3.20	30 x 35	3.60		
		25 x 25	2.30	30 x 30	3.20	35 x 30	3.60	35 x 35	3.90
18000	189	22 x 40	2.52	22 x 45	3.50	30 x 40	3.90	35 x 40	4.51
		25 x 30	2.40	25 x 40	3.50				
		30 x 25	2.49	30 x 30	3.50	35 x 35	3.90		
22000	229	22 x 45	2.60	25 x 45	3.80	30 x 45	4.30	35 x 45	5.24
		25 x 35	2.60	30 x 35	3.80				
		30 x 25	2.60	35 x 30	3.80	35 x 35	4.30		
27000	279	22 x 50	3.19	25 x 50	4.20	35 x 45	4.80		
		25 x 40	3.10	30 x 40	4.20				
		30 x 30	3.10	35 x 30	4.20				
33000	339	25 x 45	3.40	30 x 45	4.70	35 x 50	5.55		
		30 x 35	3.40					35 x 35	4.70
		35 x 30	3.40						
39000	399	30 x 40	3.79	30 x 50	5.10				
		35 x 30	3.70	35 x 40	5.10				
47000	479	30 x 45	4.26	35 x 45	5.50				
		35 x 35	4.20						
56000	569	35 x 40	5.00						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

DIMENSIONS

Voltage (Code)		50V (1H)		63V (1J)		80V (1K)		100V (2A)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
560	567							20 x 25	0.95
680	687							20 x 30	1.15
								22 x 25	1.09
820	827					20 x 25	1.04	20 x 35	1.31
								22 x 30	1.40
1000	108			20 x 25	1.21	20 x 30	1.24	20 x 35	1.43
						22 x 25	1.19	22 x 30	1.47
								25 x 25	1.45
1200	128			20 x 30	1.43	20 x 35	1.43	20 x 40	1.61
				22 x 25	1.40	22 x 30	1.50	22 x 35	1.69
								25 x 30	1.68
1500	158	20 x 25	1.29	20 x 35	1.52	20 x 35	1.57	22 x 40	1.97
				22 x 30	1.50	22 x 30	1.59	25 x 35	1.98
						25 x 25	1.59	30 x 25	1.95
1800	188	20 x 30	1.53	20 x 35	1.72	20 x 40	1.77	22 x 45	2.23
		22 x 25	1.50	22 x 30	1.70	22 x 35	1.79	25 x 40	2.20
				25 x 25	1.70	25 x 30	1.71	30 x 30	2.20
2200	228	20 x 35	1.72	20 x 40	2.01	22 x 40	2.03	25 x 45	2.53
		22 x 30	1.70	22 x 35	2.00	25 x 35	2.10	30 x 35	2.55
				25 x 30	2.00	30 x 25	1.98	35 x 30	2.60
2700	278	20 x 35	1.82	22 x 40	2.20	22 x 45	2.39	25 x 50	2.82
		22 x 30	1.80	25 x 35	2.20	25 x 40	2.35	30 x 40	2.86
		25 x 25	1.80	30 x 25	2.20	30 x 30	2.35	35 x 35	2.90
3300	338	20 x 40	2.01	22 x 45	2.60	25 x 45	2.64	30 x 45	3.30
		22 x 35	2.00	25 x 35	2.39	30 x 35	2.61	35 x 35	3.25
		25 x 30	2.00	30 x 30	2.50	35 x 30	2.60		
3900	398	22 x 40	2.23	25 x 40	2.57	25 x 50	2.92	30 x 50	3.60
		25 x 30	2.20	30 x 35	2.70	30 x 40	2.82	35 x 40	3.67
		30 x 25	2.20			35 x 30	2.97		
4700	478	22 x 45	2.50	25 x 50	3.00	30 x 45	3.34	35 x 45	3.80
		25 x 35	2.43	30 x 40	3.00	35 x 35	3.38		
		30 x 30	2.50	35 x 30	3.00				
5600	568	22 x 50	2.80	30 x 40	3.22	30 x 50	3.80	35 x 50	4.05
		25 x 40	2.80	35 x 35	3.30	35 x 40	3.80		
		30 x 30	2.76						
6800	688	25 x 45	3.30	30 x 50	3.86	35 x 45	3.90		
		30 x 35	3.30	35 x 40	3.84				
		35 x 30	3.30						
8200	828	30 x 40	3.71	35 x 45	4.43	35 x 50	4.20		
		35 x 35	3.85						
10000	109	30 x 50	4.51	35 x 50	5.11				
		35 x 40	4.49						
12000	129	35 x 45	4.56						
15000	159	35 x 50	4.80						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

HP

Large Can Aluminum Electrolytic Capacitors

Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

DIMENSIONS

Voltage (Code)		160V (2C)		180V (2P)		200V (2D)		220V (2N)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
180	187							20 x 25	0.90
220	227			20 x 25	1.00	20 x 25	1.00	20 x 30	1.00
								22 x 25	1.00
270	277	20 x 25	1.10	20 x 30	1.10	20 x 30	1.10	20 x 35	1.15
				22 x 25	1.00	22 x 25	1.10	22 x 30	1.15
330	337	20 x 30	1.20	20 x 30	1.20	20 x 35	1.20	20 x 40	1.25
		22 x 25	1.20	22 x 25	1.20	22 x 30	1.25	22 x 35	1.25
						25 x 25	1.25	25 x 25	1.25
390	397	20 x 35	1.42	20 x 35	1.30	20 x 40	1.31	20 x 45	1.40
		22 x 30	1.30	22 x 30	1.35	22 x 30	1.35	22 x 35	1.40
				25 x 25	1.35	25 x 25	1.35	25 x 30	1.40
470	477	20 x 40	1.34	20 x 40	1.40	22 x 35	1.50	22 x 40	1.51
		22 x 30	1.55	22 x 35	1.50	25 x 30	1.50	25 x 30	1.44
		25 x 25	1.55	25 x 30	1.50	30 x 25	1.50	30 x 25	1.50
560	567			22 x 40	1.67	22 x 40	1.67	22 x 45	1.70
		22 x 35	1.67	25 x 30	1.67	25 x 35	1.70	25 x 35	1.64
		25 x 30	1.67	30 x 25	1.67	30 x 25	1.67	30 x 30	1.70
								35 x 25	1.71
680	687	22 x 40	1.82	22 x 45	1.78	22 x 45	1.78	25 x 40	1.84
		25 x 35	1.85	25 x 35	1.78	25 x 40	1.82	30 x 35	1.93
		30 x 25	1.82	30 x 30	1.78	30 x 30	1.78	35 x 30	1.89
820	827	22 x 45	2.04	22 x 50	2.04	25 x 45	2.10	25 x 45	2.08
		25 x 35	2.04	25 x 40	2.04	30 x 35	2.04	30 x 40	2.19
		30 x 30	2.04	30 x 30	2.04	35 x 25	2.04	35 x 30	2.16
1000	108			25 x 45	2.30	25 x 50	2.42	30 x 45	2.50
				30 x 35	2.30	30 x 35	2.30	35 x 35	2.44
				35 x 30	2.30	35 x 30	2.30		
1200	128	25 x 50	2.62	30 x 40	2.55	30 x 40	2.65	35 x 40	2.79
		30 x 35	2.49	35 x 35	2.55	35 x 35	2.65		
		35 x 30	2.49						
1500	158	30 x 40	2.84	30 x 45	2.90	35 x 40	3.08	35 x 45	3.22
		35 x 35	2.84	35 x 35	2.90				
1800	188	30 x 50	3.32	35 x 40	3.30	35 x 45	3.48		
		35 x 35	3.00						
2200	228	35 x 45	3.50	35 x 50	3.65				

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

HP

Large Can Aluminum Electrolytic Capacitors

Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

DIMENSIONS

Voltage (Code)		250V (2E)		315V (2F)		350V (2V)		385V (2Y)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
56	566							20 x 25	0.37
68	686					20 x 25	0.47	20 x 30	0.44
								22 x 25	0.45
82	826			20 x 25	0.64	20 x 30	0.54	20 x 30	0.50
								22 x 30	0.52
100	107			20 x 30	0.49	20 x 30	0.60	20 x 35	0.56
						22 x 25	0.69	22 x 30	0.58
								25 x 25	0.57
120	127			20 x 30	0.75	20 x 35	0.68	20 x 40	0.66
				22 x 25	0.75	22 x 30	0.75	22 x 35	0.68
						25 x 25	0.75	25 x 30	0.68
150	157	20 x 25	0.79	20 x 35	0.82	20 x 40	0.78	22 x 40	0.79
				22 x 30	0.82	22 x 35	0.82	25 x 30	0.78
				25 x 25	0.82	25 x 30	0.83	30 x 25	0.75
180	187	20 x 30	0.90	20 x 40	0.90	22 x 40	0.92	22 x 45	0.89
		22 x 25	0.88	22 x 35	0.92	25 x 30	0.92	25 x 35	0.86
				25 x 30	0.93	30 x 25	0.90	30 x 30	0.88
220	227	20 x 35	1.00	22 x 40	1.04	22 x 45	1.05	22 x 50	1.01
		22 x 25	1.00	25 x 30	1.04	25 x 35	1.04	25 x 40	1.00
		25 x 25	1.08	30 x 25	1.04	30 x 30	1.02	30 x 30	1.00
270	277	20 x 40	1.10	22 x 45	1.16	22 x 50	1.16	25 x 45	1.13
		22 x 30	1.18	25 x 35	1.16	25 x 40	1.18	30 x 40	1.14
		25 x 30	1.27	30 x 25	1.16	30 x 30	1.17	35 x 30	1.10
330	337	22 x 35	1.30	22 x 50	1.33	25 x 45	1.29	30 x 45	1.31
		25 x 30	1.30	25 x 40	1.33	30 x 35	1.34	35 x 35	1.32
		30 x 25	1.35	30 x 30	1.33	35 x 30	1.22		
390	397	22 x 40	1.49	25 x 45	1.47	25 x 50	1.51	30 x 50	1.48
		25 x 35	1.49	30 x 35	1.47	30 x 40	1.51	35 x 40	1.48
		30 x 25	1.49	35 x 30	1.47	35 x 35	1.47		
470	477	22 x 45	1.65	30 x 40	1.70	30 x 45	1.65	35 x 45	1.76
		25 x 40	1.65	35 x 30	1.70	35 x 35	1.69		
		30 x 30	1.65						
560	567	25 x 45	1.80	30 x 45	2.05	30 x 50	1.85	35 x 50	1.95
		30 x 35	1.80	35 x 35	2.05	35 x 40	1.90		
680	687	25 x 50	2.03						
		30 x 35	2.00	35 x 40	2.17	35 x 45	2.20		
		35 x 30	2.00						
820	827	30 x 40	2.30	35 x 45	2.20				
		35 x 35	2.30						
1000	108	30 x 50	2.70						
		35 x 40	2.69						
1200	128	35 x 45	3.09						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

Lug/Snap-in Terminal Type(插入/自立型), Wide Temperature(寬溫度)

DIMENSIONS

Voltage (Code)		400V (2G)		420V (2M)		450V (2W)		500V (2H)	
Cap.(μF)	Code	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current	Case Size	Ripple Current
39	396							22 x 30	0.35
47	476					20 x 25	0.39	22 x 35	0.41
56	566	20 x 25	0.51	20 x 25	0.51	20 x 30	0.51	22 x 40	0.47
						22 x 25	0.50		
68	686	20 x 30	0.56	20 x 30	0.56	20 x 35	0.56	22 x 45	0.54
		22 x 25	0.50	22 x 25	0.55	22 x 30	0.53		
						25 x 25	0.53		
82	826	20 x 30	0.64	20 x 35	0.64	20 x 35	0.64	25 x 40	0.62
		22 x 25	0.64	22 x 25	0.64	22 x 30	0.64		
				25 x 25	0.58	25 x 25	0.64		
100	107	20 x 35	0.70	20 x 35	0.70	22 x 35	0.69	25 x 45	0.67
		22 x 30	0.70	22 x 30	0.70	25 x 30	0.69		
		25 x 25	0.70	25 x 25	0.70	30 x 25	0.72		
120	127	20 x 40	0.75	20 x 40	0.75	22 x 40	0.80	25 x 50	0.77
		22 x 35	0.75	22 x 35	0.75	25 x 30	0.80	35 x 30	0.72
				25 x 30	0.75	30 x 25	0.80		
				30 x 25	0.78				
150	157	22 x 40	0.88	22 x 40	0.88	22 x 45	0.88	30 x 40	0.85
		25 x 35	0.89	25 x 35	0.88	25 x 35	0.88		
		30 x 25	0.88	30 x 25	0.88	30 x 30	0.88		
180	187	22 x 45	0.98	22 x 45	0.95	25 x 40	1.00	30 x 50	1.01
		25 x 35	0.98	25 x 40	0.97				
		30 x 30	0.98	30 x 30	0.96	30 x 30	1.00		
				35 x 25	0.94				
220	227	22 x 50	1.10	25 x 45	1.13	25 x 45	1.12	35 x 45	1.12
		25 x 40	1.10	30 x 35	1.10	30 x 35	1.12		
		30 x 30	1.10	35 x 25	1.10	35 x 30	1.12		
270	277	25 x 50	1.29	25 x 50	1.37	30 x 40	1.28	35 x 50	1.29
		30 x 35	1.22	30 x 40	1.25				
		35 x 30	1.22	35 x 30	1.22	35 x 35	1.28		
330	337	30 x 45	1.55	30 x 45	1.49	30 x 50	1.45		
		35 x 30	1.44	35 x 35	1.45	35 x 40	1.45		
390	397	30 x 45	1.60	30 x 50	1.67	35 x 40	1.55		
		35 x 35	1.60	35 x 40	1.66				
470	477	35 x 40	1.90	35 x 45	1.90	35 x 50	1.85		
560	567	35 x 45	2.12						

Maximum Allowable Ripple Current (A rms) at 105°C 120Hz

Case Size φD x L(mm)

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