

### Snap-in Type

Series: UP Type : TS

- Features Endurance: 85°C 2000 h  
Length 20 mm  
RoHS directive compliant

Country of Origin

- Japan
- Malaysia
- U.S.A (\*\*\*)



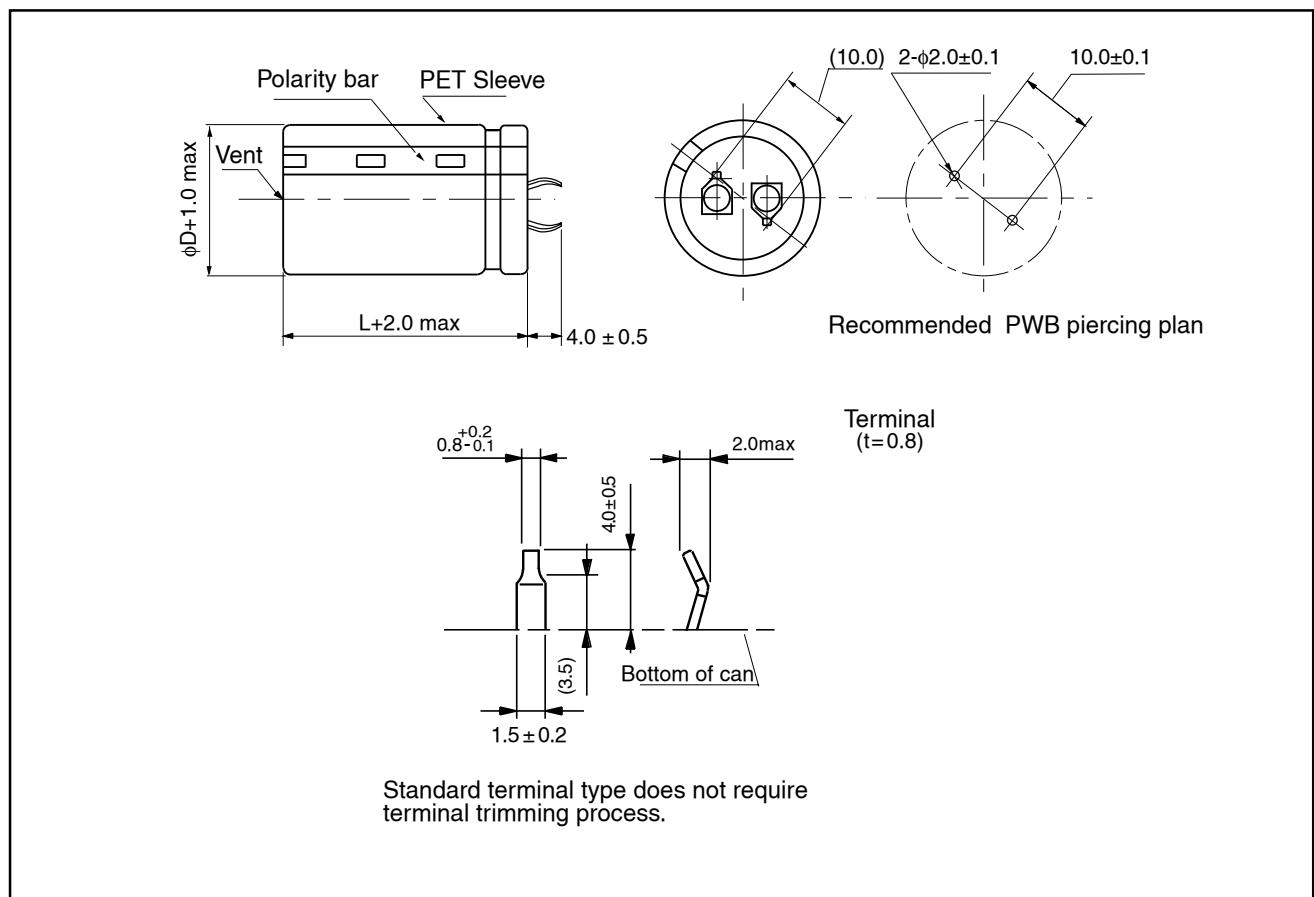
- Recommended Applications Smoothing circuits, AC adaptor,

(\*\*\*) Regarding USA product, Please check PEDCA's Catalog.

■ Specifications

Category temp. range	-40 to +85°C	-25 to +85°C							
Rated W.V. Range	16 to 250 V .DC	315 to 450 V .DC							
Nominal Cap. Range	120 to 68000 μ F	33 to 820 μ F							
Capacitance Tolerance	±20 % (120Hz/+20°C)								
DC Leakage Current	3√CV (μA) max. after 5 minutes application of rated working voltage at +20°C. C: Capacitance(μF) V: W.V. (V.DC)								
tan δ	Please see the attached standard products list								
Frequency Correction Factor for Ripple Current	Frequency (Hz)	50	60	100	120	500	1k	10k to	
	Correction Factor	16 to 100V	0.93	0.95	0.99	1.00	1.05	1.08	1.15
		160 to 450V	0.75	0.80	0.95	1.00	1.20	1.25	1.40
Endurance	After 2000 hours application of DC voltage with specified ripple current (≤ rated DC working voltage) at +85°C, the capacitor shall meet the following limits.								
	Capacitance change	±20 % of initial measured value							
	tan δ	≤ 200 % of initial specified value							
Shelf Life	After storage for 1000 hours at +85±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance.(With voltage treatment)								
	DC leakage current	≤ initial specified value							

■ Dimensions in mm (not to scale)



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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.PackagingQty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
16	10000	22	30	3.78	0.50	ECEC1CP103BJ	200
		25	25	3.78	0.50	ECEC1CP103CJ	200
	12000	22	30	4.52	0.50	ECEC1CP123BJ	200
		25	25	4.52	0.50	ECEC1CP123CJ	200
	15000	22	35	5.26	0.50	ECEC1CP153BJ	200
		25	30	5.26	0.50	ECEC1CP153CJ	200
	18000	22	40	5.57	0.50	ECEC1CP183BJ	200
		25	30	5.57	0.50	ECEC1CP183CJ	200
	22000	22	45	6.10	0.50	ECEC1CP223BJ	200
		25	35	6.10	0.50	ECEC1CP223CJ	200
		30	30	6.10	0.50	ECEC1CP223DJ	200
	27000	25	45	6.31	0.50	ECEC1CP273CJ	200
		30	35	6.31	0.50	ECEC1CP273DJ	100
	33000	25	50	6.84	0.50	ECEC1CP333CJ	200
		30	40	6.84	0.50	ECEC1CP333DJ	100
		35	30	6.84	0.50	ECEC1CP333EJ	200
39000	30	45	6.94	0.56	ECEC1CP393DJ	100	
	35	35	6.94	0.56	ECEC1CP393EJ	100	
47000	30	50	7.47	0.64	ECEC1CP473DJ	100	
	35	40	7.47	0.64	ECEC1CP473EJ	100	
56000	35	45	8.73	0.73	ECEC1CP563EJ	100	
68000	35	50	9.05	0.85	ECEC1CP683EJ	100	
25	6800	22	30	3.47	0.40	ECEC1EP682BJ	200
		25	25	3.47	0.40	ECEC1EP682CJ	200
	8200	22	30	3.57	0.40	ECEC1EP822BJ	200
		25	25	3.57	0.40	ECEC1EP822CJ	200
	10000	22	35	3.78	0.40	ECEC1EP103BJ	200
		25	30	3.78	0.40	ECEC1EP103CJ	200
		30	25	3.78	0.40	ECEC1EP103DJ	200
	12000	22	40	4.10	0.40	ECEC1EP123BJ	200
		25	35	4.10	0.40	ECEC1EP123CJ	200
		30	30	4.10	0.40	ECEC1EP123DJ	200
	15000	22	50	4.63	0.40	ECEC1EP153BJ	200
		25	40	4.63	0.40	ECEC1EP153CJ	200
		30	30	4.63	0.40	ECEC1EP153DJ	200
	18000	25	45	5.47	0.40	ECEC1EP183CJ	200
		30	35	5.47	0.40	ECEC1EP183DJ	100
	22000	25	50	6.10	0.40	ECEC1EP223CJ	200
30		40	6.10	0.40	ECEC1EP223DJ	100	
27000	30	45	6.21	0.40	ECEC1EP273DJ	100	
	35	35	6.21	0.40	ECEC1EP273EJ	100	
33000	30	50	6.84	0.40	ECEC1EP333DJ	100	

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.Packaging Qty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
25	33000	35	40	6.84	0.40	ECEC1EP333EJ	100
	39000	35	45	7.36	0.46	ECEC1EP393EJ	100
	47000	35	50	8.00	0.54	ECEC1EP473EJ	100
35	4700	22	30	3.26	0.35	ECEC1VP472BJ	200
		25	25	3.26	0.35	ECEC1VP472CJ	200
	5600	22	30	3.36	0.35	ECEC1VP562BJ	200
		25	25	3.36	0.35	ECEC1VP562CJ	200
	6800	22	35	3.68	0.35	ECEC1VP682BJ	200
		25	30	3.68	0.35	ECEC1VP682CJ	200
	8200	22	40	4.00	0.35	ECEC1VP822BJ	200
		25	35	4.00	0.35	ECEC1VP822CJ	200
	10000	22	45	4.42	0.35	ECEC1VP103BJ	200
			40	4.42	0.35	ECEC1VP103CJ	200
		30	30	4.42	0.35	ECEC1VP103DJ	200
			25	4.42	0.35	ECEC1VP103EJ	200
	12000	25	45	5.05	0.35	ECEC1VP123CJ	200
			30	5.05	0.35	ECEC1VP123DJ	100
		35	5.05	0.35	ECEC1VP123EJ	200	
	15000	25	50	5.57	0.35	ECEC1VP153CJ	200
			40	5.57	0.35	ECEC1VP153DJ	100
		35	5.57	0.35	ECEC1VP153EJ	200	
	18000	30	45	5.68	0.35	ECEC1VP183DJ	100
		35	35	5.68	0.35	ECEC1VP183EJ	100
	22000	30	50	6.10	0.35	ECEC1VP223DJ	100
			40	6.10	0.35	ECEC1VP223EJ	100
	27000	35	45	6.84	0.35	ECEC1VP273EJ	100
	33000	35	50	7.15	0.35	ECEC1VP333EJ	100
50	3300	22	30	2.73	0.30	ECEC1HP332BJ	200
		25	25	2.73	0.30	ECEC1HP332CJ	200
	3900	22	30	2.75	0.30	ECEC1HP392BJ	200
		25	25	2.75	0.30	ECEC1HP392CJ	200
	4700	22	35	3.03	0.30	ECEC1HP472BJ	200
		25	30	3.03	0.30	ECEC1HP472CJ	200
		30	25	3.03	0.30	ECEC1HP472DJ	200
	5600	22	40	3.42	0.30	ECEC1HP562BJ	200
			25	35	3.42	0.30	ECEC1HP562CJ
		30	30	3.42	0.30	ECEC1HP562DJ	200
	6800	22	50	3.85	0.30	ECEC1HP682BJ	200
			40	3.85	0.30	ECEC1HP682CJ	200
		30	30	3.85	0.30	ECEC1HP682DJ	200
	8200	25	45	4.41	0.30	ECEC1HP822CJ	200
		30	35	4.41	0.30	ECEC1HP822DJ	100

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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No. PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
50	10000	25	50	4.97	0.30	ECEC1HP103CJ	200
		30	40	4.97	0.30	ECEC1HP103DJ	100
		35	30	4.97	0.30	ECEC1HP103EJ	200
	12000	30	45	5.58	0.30	ECEC1HP123DJ	100
		35	35	5.58	0.30	ECEC1HP123EJ	100
	15000	30	50	6.44	0.30	ECEC1HP153DJ	100
		35	40	6.44	0.30	ECEC1HP153EJ	100
	18000	35	45	6.94	0.30	ECEC1HP183EJ	100
22000	35	50	7.57	0.30	ECEC1HP223EJ	100	
63	2200	22	30	2.52	0.25	ECEC1JP222BJ	200
		25	25	2.52	0.25	ECEC1JP222CJ	200
	2700	22	35	3.73	0.25	ECEC1JP272BJ	200
		25	30	3.73	0.25	ECEC1JP272CJ	200
	3300	22	40	4.10	0.25	ECEC1JP332BJ	200
		25	30	4.10	0.25	ECEC1JP332CJ	200
		30	25	4.10	0.25	ECEC1JP332DJ	200
	3900	22	45	4.44	0.25	ECEC1JP392BJ	200
		25	35	4.44	0.25	ECEC1JP392CJ	200
		30	30	4.44	0.25	ECEC1JP392DJ	200
	4700	22	50	4.86	0.25	ECEC1JP472BJ	200
		25	40	4.86	0.25	ECEC1JP472CJ	200
		30	30	4.86	0.25	ECEC1JP472DJ	200
		35	25	4.86	0.25	ECEC1JP472EJ	200
	5600	25	45	5.36	0.25	ECEC1JP562CJ	200
		30	35	5.36	0.25	ECEC1JP562DJ	100
		35	30	5.36	0.25	ECEC1JP562EJ	200
	6800	25	50	5.84	0.25	ECEC1JP682CJ	200
		30	40	5.84	0.25	ECEC1JP682DJ	100
		35	30	5.84	0.25	ECEC1JP682EJ	200
8200	30	45	6.00	0.25	ECEC1JP822DJ	100	
	35	35	6.00	0.25	ECEC1JP822EJ	100	
10000	35	40	6.52	0.25	ECEC1JP103EJ	100	
12000	35	50	7.15	0.25	ECEC1JP123EJ	100	
80	1500	22	30	2.26	0.20	ECEC1KP152BJ	200
		25	25	2.26	0.20	ECEC1KP152CJ	200
	1800	22	35	2.52	0.20	ECEC1KP182BJ	200
		25	30	2.52	0.20	ECEC1KP182CJ	200
	2200	22	40	2.73	0.20	ECEC1KP222BJ	200
		25	30	2.73	0.20	ECEC1KP222CJ	200
		30	25	2.73	0.20	ECEC1KP222DJ	200
	2700	22	45	2.78	0.20	ECEC1KP272BJ	200
25		35	2.78	0.20	ECEC1KP272CJ	200	

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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.PackagingQty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
80	2700	30	30	2.78	0.20	ECEC1KP272DJ	200
	3300	22	50	3.21	0.20	ECEC1KP332BJ	200
		25	40	3.21	0.20	ECEC1KP332CJ	200
		30	30	3.21	0.20	ECEC1KP332DJ	200
	3900	25	45	3.59	0.20	ECEC1KP392CJ	200
		30	35	3.59	0.20	ECEC1KP392DJ	100
	4700	25	50	4.09	0.20	ECEC1KP472CJ	200
		30	40	4.09	0.20	ECEC1KP472DJ	100
	5600	30	45	4.55	0.20	ECEC1KP562DJ	100
		35	35	4.55	0.20	ECEC1KP562EJ	100
	6800	30	50	5.16	0.20	ECEC1KP682DJ	100
		35	40	5.16	0.20	ECEC1KP682EJ	100
8200	35	50	5.83	0.20	ECEC1KP822EJ	100	
100	1000	22	30	1.96	0.20	ECEC2AP102BJ	200
		25	25	1.96	0.20	ECEC2AP102CJ	200
	1200	22	35	2.31	0.20	ECEC2AP122BJ	200
		25	30	2.31	0.20	ECEC2AP122CJ	200
	1500	22	40	2.57	0.20	ECEC2AP152BJ	200
		25	30	2.57	0.20	ECEC2AP152CJ	200
		30	25	2.57	0.20	ECEC2AP152DJ	200
	1800	22	45	2.84	0.20	ECEC2AP182BJ	200
		25	35	2.84	0.20	ECEC2AP182CJ	200
		30	30	2.84	0.20	ECEC2AP182DJ	200
	2200	22	50	3.14	0.20	ECEC2AP222BJ	200
		25	40	3.14	0.20	ECEC2AP222CJ	200
		30	30	3.14	0.20	ECEC2AP222DJ	200
	2700	25	45	3.71	0.20	ECEC2AP272CJ	200
		30	35	3.71	0.20	ECEC2AP272DJ	100
	3300	25	50	4.06	0.20	ECEC2AP332CJ	200
		30	40	4.06	0.20	ECEC2AP332DJ	100
	3900	30	45	4.54	0.20	ECEC2AP392DJ	100
		35	35	4.54	0.20	ECEC2AP392EJ	100
	4700	30	50	5.13	0.20	ECEC2AP472DJ	100
		35	40	5.13	0.20	ECEC2AP472EJ	100
	5600	35	45	5.75	0.20	ECEC2AP562EJ	100
6800	35	50	6.60	0.20	ECEC2AP682EJ	100	
160	330	22	25	1.45	0.15	ECEC2CP331BJ	200
	390	22	30	1.62	0.15	ECEC2CP391BJ	200
		25	25	1.62	0.15	ECEC2CP391CJ	200
	470	22	30	2.11	0.15	ECEC2CP471BJ	200
		25	25	2.11	0.15	ECEC2CP471CJ	200
	560	22	35	2.25	0.15	ECEC2CP561BJ	200

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.PackagingQty  (pcs)	
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)			
160	560	25	30	2.25	0.15	ECEC2CP561CJ	200	
		30	25	2.25	0.15	ECEC2CP561DJ	200	
	680	22	40	2.50	0.15	ECEC2CP681BJ	200	
		25	35	2.50	0.15	ECEC2CP681CJ	200	
		30	25	2.50	0.15	ECEC2CP681DJ	200	
	820	22	45	2.75	0.15	ECEC2CP821BJ	200	
		25	35	2.75	0.15	ECEC2CP821CJ	200	
		30	30	2.75	0.15	ECEC2CP821DJ	200	
	1000	25	45	3.00	0.15	ECEC2CP102CJ	200	
		30	35	3.00	0.15	ECEC2CP102DJ	100	
		35	30	3.00	0.15	ECEC2CP102EJ	200	
	1200	25	50	3.25	0.15	ECEC2CP122CJ	200	
		30	35	3.25	0.15	ECEC2CP122DJ	100	
		35	30	3.25	0.15	ECEC2CP122EJ	200	
	1500	30	45	3.73	0.15	ECEC2CP152DJ	100	
		35	35	3.73	0.15	ECEC2CP152EJ	100	
	1800	30	50	4.20	0.15	ECEC2CP182DJ	100	
		35	40	4.20	0.15	ECEC2CP182EJ	100	
		2200	35	45	4.78	0.15	ECEC2CP222EJ	100
		2700	35	50	5.45	0.15	ECEC2CP272EJ	100
180	330	22	25	1.77	0.15	ECEC2PP331BJ	200	
	390	22	30	1.91	0.15	ECEC2PP391BJ	200	
		25	25	1.91	0.15	ECEC2PP391CJ	200	
	470	22	35	2.08	0.15	ECEC2PP471BJ	200	
		25	25	2.08	0.15	ECEC2PP471CJ	200	
	560	22	35	2.25	0.15	ECEC2PP561BJ	200	
		25	30	2.25	0.15	ECEC2PP561CJ	200	
	680	22	40	2.50	0.15	ECEC2PP681BJ	200	
		25	35	2.50	0.15	ECEC2PP681CJ	200	
		30	30	2.50	0.15	ECEC2PP681DJ	200	
	820	22	45	2.75	0.15	ECEC2PP821BJ	200	
		25	40	2.75	0.15	ECEC2PP821CJ	200	
		30	30	2.75	0.15	ECEC2PP821DJ	200	
	1000	25	45	3.00	0.15	ECEC2PP102CJ	200	
		30	35	3.00	0.15	ECEC2PP102DJ	100	
	1200	25	50	3.31	0.15	ECEC2PP122CJ	200	
		30	40	3.31	0.15	ECEC2PP122DJ	100	
		35	35	3.31	0.15	ECEC2PP122EJ	100	
	1500	30	45	3.83	0.15	ECEC2PP152DJ	100	
		35	40	3.83	0.15	ECEC2PP152EJ	100	
1800	30	50	4.32	0.15	ECEC2PP182DJ	100		
	35	40	4.32	0.15	ECEC2PP182EJ	100		

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.Packaging Q'ty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
180	2200	35	50	4.92	0.15	ECEC2PP222EJ	100
200	270	22	25	1.41	0.15	ECEC2DP271BJ	200
		330	22	30	1.56	0.15	ECEC2DP331BJ
	330	25	25	1.56	0.15	ECEC2DP331CJ	200
		390	22	30	1.68	0.15	ECEC2DP391BJ
	390	25	25	1.68	0.15	ECEC2DP391CJ	200
		470	22	35	1.85	0.15	ECEC2DP471BJ
	25		30	1.85	0.15	ECEC2DP471CJ	200
	30		25	1.85	0.15	ECEC2DP471DJ	200
	560	22	40	2.43	0.15	ECEC2DP561BJ	200
		25	35	2.43	0.15	ECEC2DP561CJ	200
		30	25	2.43	0.15	ECEC2DP561DJ	200
	680	22	45	2.68	0.15	ECEC2DP681BJ	200
		25	35	2.68	0.15	ECEC2DP681CJ	200
		30	30	2.68	0.15	ECEC2DP681DJ	200
	820	25	45	2.93	0.15	ECEC2DP821CJ	200
		30	35	2.93	0.15	ECEC2DP821DJ	100
		35	25	2.93	0.15	ECEC2DP821EJ	200
	1000	25	50	3.25	0.15	ECEC2DP102CJ	200
		30	40	3.25	0.15	ECEC2DP102DJ	100
		35	30	3.25	0.15	ECEC2DP102EJ	200
1200	30	45	3.50	0.15	ECEC2DP122DJ	100	
	35	35	3.50	0.15	ECEC2DP122EJ	100	
1500	30	50	3.87	0.15	ECEC2DP152DJ	100	
	35	40	3.87	0.15	ECEC2DP152EJ	100	
1800	35	45	4.32	0.15	ECEC2DP182EJ	100	
2200	35	50	4.92	0.15	ECEC2DP222EJ	100	
250	180	22	25	1.07	0.15	ECEC2EP181BJ	200
	220	22	30	1.17	0.15	ECEC2EP221BJ	200
		25	25	1.17	0.15	ECEC2EP221CJ	200
	270	22	30	1.31	0.15	ECEC2EP271BJ	200
		25	25	1.31	0.15	ECEC2EP271CJ	200
	330	22	35	1.75	0.15	ECEC2EP331BJ	200
		25	30	1.75	0.15	ECEC2EP331CJ	200
		30	25	1.75	0.15	ECEC2EP331DJ	200
	390	22	40	1.91	0.15	ECEC2EP391BJ	200
		25	35	1.91	0.15	ECEC2EP391CJ	200
		30	25	1.91	0.15	ECEC2EP391DJ	200
	470	22	45	2.11	0.15	ECEC2EP471BJ	200
		25	40	2.11	0.15	ECEC2EP471CJ	200
		30	30	2.11	0.15	ECEC2EP471DJ	200
560	25	45	2.25	0.15	ECEC2EP561CJ	200	

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.Packaging Qty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
250	560	30	35	2.25	0.15	ECEC2EP561DJ	100
		35	25	2.25	0.15	ECEC2EP561EJ	200
	680	25	50	2.50	0.15	ECEC2EP681CJ	200
		30	40	2.50	0.15	ECEC2EP681DJ	100
		35	30	2.50	0.15	ECEC2EP681EJ	200
	820	30	45	2.77	0.15	ECEC2EP821DJ	100
		35	35	2.77	0.15	ECEC2EP821EJ	100
	1000	30	50	3.32	0.15	ECEC2EP102DJ	100
		35	40	3.32	0.15	ECEC2EP102EJ	100
	1200	35	45	3.53	0.15	ECEC2EP122EJ	100
1500	35	50	4.04	0.15	ECEC2EP152EJ	100	
315	100	22	25	0.92	0.15	ECEC2FP101BJ	200
	120	22	30	1.01	0.15	ECEC2FP121BJ	200
		25	25	1.01	0.15	ECEC2FP121CJ	200
	150	22	30	1.11	0.15	ECEC2FP151BJ	200
		25	25	1.11	0.15	ECEC2FP151CJ	200
	180	22	35	1.21	0.15	ECEC2FP181BJ	200
		25	30	1.21	0.15	ECEC2FP181CJ	200
		30	25	1.21	0.15	ECEC2FP181DJ	200
	220	22	40	1.41	0.15	ECEC2FP221BJ	200
		25	35	1.41	0.15	ECEC2FP221CJ	200
		30	25	1.41	0.15	ECEC2FP221DJ	200
	270	22	45	1.60	0.15	ECEC2FP271BJ	200
		25	40	1.60	0.15	ECEC2FP271CJ	200
		30	30	1.60	0.15	ECEC2FP271DJ	200
	330	25	45	1.82	0.15	ECEC2FP331CJ	200
		30	35	1.82	0.15	ECEC2FP331DJ	100
		35	25	1.82	0.15	ECEC2FP331EJ	200
	390	25	50	2.01	0.15	ECEC2FP391CJ	200
		30	35	2.01	0.15	ECEC2FP391DJ	100
		35	30	2.01	0.15	ECEC2FP391EJ	200
	470	30	40	2.27	0.15	ECEC2FP471DJ	100
		35	35	2.27	0.15	ECEC2FP471EJ	100
	560	30	45	2.56	0.15	ECEC2FP561DJ	100
		35	35	2.56	0.15	ECEC2FP561EJ	100
680	35	45	2.87	0.15	ECEC2FP681EJ	100	
820	35	50	3.25	0.15	ECEC2FP821EJ	100	
350	82	22	25	0.83	0.15	ECEC2VP820BJ	200
	100	22	30	0.91	0.15	ECEC2VP101BJ	200
	120	22	30	1.00	0.15	ECEC2VP121BJ	200
		25	25	1.00	0.15	ECEC2VP121CJ	200
	150	22	35	1.12	0.15	ECEC2VP151BJ	200

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)



### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.PackagingQty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
350	150	25	30	1.12	0.15	ECEC2VP151CJ	200
		30	25	1.12	0.15	ECEC2VP151DJ	200
	180	22	40	1.22	0.15	ECEC2VP181BJ	200
		25	35	1.22	0.15	ECEC2VP181CJ	200
		30	25	1.22	0.15	ECEC2VP181DJ	200
	220	22	45	1.44	0.15	ECEC2VP221BJ	200
		25	40	1.44	0.15	ECEC2VP221CJ	200
		30	30	1.44	0.15	ECEC2VP221DJ	200
		35	25	1.44	0.15	ECEC2VP221EJ	200
	270	25	45	1.66	0.15	ECEC2VP271CJ	200
		30	35	1.66	0.15	ECEC2VP271DJ	100
		35	30	1.66	0.15	ECEC2VP271EJ	200
	330	25	50	1.88	0.15	ECEC2VP331CJ	200
		30	40	1.88	0.15	ECEC2VP331DJ	100
		35	30	1.88	0.15	ECEC2VP331EJ	200
	390	30	45	2.06	0.15	ECEC2VP391DJ	100
		35	35	2.06	0.15	ECEC2VP391EJ	100
	470	30	50	2.40	0.15	ECEC2VP471DJ	100
35		40	2.40	0.15	ECEC2VP471EJ	100	
560	35	45	2.60	0.15	ECEC2VP561EJ	100	
680	35	50	2.96	0.15	ECEC2VP681EJ	100	
400	68	22	25	0.76	0.15	ECEC2GP680BJ	200
	82	22	25	0.83	0.15	ECEC2GP820BJ	200
	100	22	30	0.92	0.15	ECEC2GP101BJ	200
		25	25	0.92	0.15	ECEC2GP101CJ	200
	120	22	35	1.02	0.15	ECEC2GP121BJ	200
		25	30	1.02	0.15	ECEC2GP121CJ	200
	150	22	40	1.16	0.15	ECEC2GP151BJ	200
		25	30	1.16	0.15	ECEC2GP151CJ	200
		30	25	1.16	0.15	ECEC2GP151DJ	200
	180	22	45	1.44	0.15	ECEC2GP181BJ	200
		25	35	1.44	0.15	ECEC2GP181CJ	200
		30	30	1.44	0.15	ECEC2GP181DJ	200
	220	22	50	1.49	0.15	ECEC2GP221BJ	200
		25	40	1.49	0.15	ECEC2GP221CJ	200
		30	30	1.49	0.15	ECEC2GP221DJ	200
	270	25	45	1.67	0.15	ECEC2GP271CJ	200
		30	35	1.67	0.15	ECEC2GP271DJ	100
		35	30	1.67	0.15	ECEC2GP271EJ	200
330	30	40	1.90	0.15	ECEC2GP331DJ	100	
	35	35	1.90	0.15	ECEC2GP331EJ	100	
390	30	45	2.13	0.15	ECEC2GP391DJ	100	

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.Packaging Qty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
400	390	35	40	2.13	0.15	ECEC2GP391EJ	100
	470	35	45	2.39	0.15	ECEC2GP471EJ	100
	560	35	50	2.69	0.15	ECEC2GP561EJ	100
420	82	22	30	0.83	0.15	ECEC2SP820BJ	200
	100	22	30	0.92	0.15	ECEC2SP101BJ	200
		25	25	0.92	0.15	ECEC2SP101CJ	200
	120	22	35	1.02	0.15	ECEC2SP121BJ	200
		25	30	1.02	0.15	ECEC2SP121CJ	200
	150	22	40	1.16	0.15	ECEC2SP151BJ	200
		25	30	1.16	0.15	ECEC2SP151CJ	200
		30	25	1.16	0.15	ECEC2SP151DJ	200
	180	22	45	1.44	0.15	ECEC2SP181BJ	200
		25	35	1.44	0.15	ECEC2SP181CJ	200
		30	30	1.44	0.15	ECEC2SP181DJ	200
	220	25	45	1.49	0.15	ECEC2SP221CJ	200
		30	30	1.49	0.15	ECEC2SP221DJ	200
		35	25	1.49	0.15	ECEC2SP221EJ	200
	270	25	50	1.67	0.15	ECEC2SP271CJ	200
		30	35	1.67	0.15	ECEC2SP271DJ	100
		35	30	1.67	0.15	ECEC2SP271EJ	200
	330	30	45	1.90	0.15	ECEC2SP331DJ	100
		35	35	1.90	0.15	ECEC2SP331EJ	100
	390	30	50	2.13	0.15	ECEC2SP391DJ	100
		35	40	2.13	0.15	ECEC2SP391EJ	100
470	35	45	2.39	0.15	ECEC2SP471EJ	100	
560	35	50	2.69	0.15	ECEC2SP561EJ	100	
450	56	22	25	0.70	0.15	ECEC2WP560BJ	200
	68	22	30	0.76	0.15	ECEC2WP680BJ	200
	82	22	30	0.83	0.15	ECEC2WP820BJ	200
		25	25	0.83	0.15	ECEC2WP820CJ	200
	100	22	35	0.93	0.15	ECEC2WP101BJ	200
		25	30	0.93	0.15	ECEC2WP101CJ	200
		30	25	0.93	0.15	ECEC2WP101DJ	200
	120	22	40	1.04	0.15	ECEC2WP121BJ	200
		25	30	1.04	0.15	ECEC2WP121CJ	200
		30	25	1.04	0.15	ECEC2WP121DJ	200
	150	22	50	1.19	0.15	ECEC2WP151BJ	200
		25	40	1.19	0.15	ECEC2WP151CJ	200
		30	30	1.19	0.15	ECEC2WP151DJ	200
	180	25	45	1.35	0.15	ECEC2WP181CJ	200
		30	35	1.35	0.15	ECEC2WP181DJ	100
35		25	1.35	0.15	ECEC2WP181EJ	200	

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.Packaging Q'ty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
450	220	25	50	1.55	0.15	ECEC2WP221CJ	200
		30	40	1.55	0.15	ECEC2WP221DJ	100
		35	30	1.55	0.15	ECEC2WP221EJ	200
	270	30	45	1.78	0.15	ECEC2WP271DJ	100
		35	35	1.78	0.15	ECEC2WP271EJ	100
	330	30	50	2.01	0.15	ECEC2WP331DJ	100
		35	40	2.01	0.15	ECEC2WP331EJ	100
	390	35	45	2.24	0.15	ECEC2WP391EJ	100
	470	35	50	2.53	0.15	ECEC2WP471EJ	100

Endurance : 85°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35x45L and φ35x50L are mounted on PWB, reinforce them with mounting clamp or adhesives.(Avoid using adhesives including halogenated compositions.)

### ■ Standard Products(L:20mm)

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.  PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.PackagingQty  (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)		
16	4700	22	20	1.60	0.50	ECEC1CP472BJ	200
	6800	25	20	1.80	0.50	ECEC1CP682CJ	200
	10000	30	20	2.40	0.50	ECEC1CP103DJ	200
	15000	35	20	3.20	0.50	ECEC1CP153EJ	200
25	3300	22	20	1.60	0.40	ECEC1EP332BJ	200
	4700	25	20	1.80	0.40	ECEC1EP472CJ	200
	6800	30	20	2.30	0.40	ECEC1EP682DJ	200
	10000	35	20	2.70	0.40	ECEC1EP103EJ	200
35	2200	22	20	1.40	0.35	ECEC1VP222BJ	200
	3300	25	20	1.70	0.35	ECEC1VP332CJ	200
	4700	30	20	2.00	0.35	ECEC1VP472DJ	200
	6800	35	20	2.40	0.35	ECEC1VP682EJ	200
50	1500	22	20	1.20	0.30	ECEC1HP152BJ	200
	2200	25	20	1.40	0.30	ECEC1HP222CJ	200
	3300	30	20	1.70	0.30	ECEC1HP332DJ	200
	4700	35	20	2.10	0.30	ECEC1HP472EJ	200
63	1000	22	20	1.20	0.25	ECEC1JP102BJ	200
	1500	25	20	1.30	0.25	ECEC1JP152CJ	200
	2200	30	20	1.50	0.25	ECEC1JP222DJ	200
	2700	35	20	1.70	0.25	ECEC1JP272EJ	200
80	680	22	20	1.00	0.20	ECEC1KP681BJ	200
	1000	25	20	1.20	0.20	ECEC1KP102CJ	200
	1500	30	20	1.40	0.20	ECEC1KP152DJ	200
	2200	35	20	1.70	0.20	ECEC1KP222EJ	200
100	470	22	20	1.00	0.20	ECEC2AP471BJ	200
	680	25	20	1.10	0.20	ECEC2AP681CJ	200
	1000	30	20	1.20	0.20	ECEC2AP102DJ	200
	1500	35	20	1.50	0.20	ECEC2AP152EJ	200
160	220	22	20	0.75	0.15	ECEC2CP221BJ	200
	270	25	20	0.87	0.15	ECEC2CP271CJ	200
	390	30	20	1.10	0.15	ECEC2CP391DJ	200
	560	35	20	1.30	0.15	ECEC2CP561EJ	200
200	150	22	20	0.65	0.15	ECEC2DP151BJ	200
	220	25	20	0.87	0.15	ECEC2DP221CJ	200
	330	30	20	1.10	0.15	ECEC2DP331DJ	200
	470	35	20	1.30	0.15	ECEC2DP471EJ	200
250	120	22	20	0.45	0.15	ECEC2EP121BJ	200
	150	25	20	0.65	0.15	ECEC2EP151CJ	200
	220	30	20	0.87	0.15	ECEC2EP221DJ	200
	330	35	20	1.10	0.15	ECEC2EP331EJ	200
400	47	22	20	0.25	0.15	ECEC2GP470BJ	200
	68	25	20	0.35	0.15	ECEC2GP680CJ	200

Endurance : 85°C 2000h  
Terminal Pitch : 10mm

### ■ Standard Products(L:20mm)

W.V. (V)	Cap. (±20%) ( $\mu$ F)	Case size		Specification		Part No. PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	Min.PackagingQ'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	$\tan \delta$ (120Hz) (+20°C)		
400	100	30	20	0.47	0.15	ECEC2GP101DJ	200
	150	35	20	0.60	0.15	ECEC2GP151EJ	200
450	33	22	20	0.20	0.15	ECEC2WP330BJ	200
	47	25	20	0.29	0.15	ECEC2WP470CJ	200
	68	30	20	0.38	0.15	ECEC2WP680DJ	200
	100	35	20	0.52	0.15	ECEC2WP101EJ	200

Endurance : 85°C 2000h

Terminal Pitch : 10mm