

### Snap-in Type

Series: UP Type : TS

Country of Origin

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



- Features Endurance: 85°C 2000 h  
Dia.  $\phi 20$  mm  
Length 20 mm

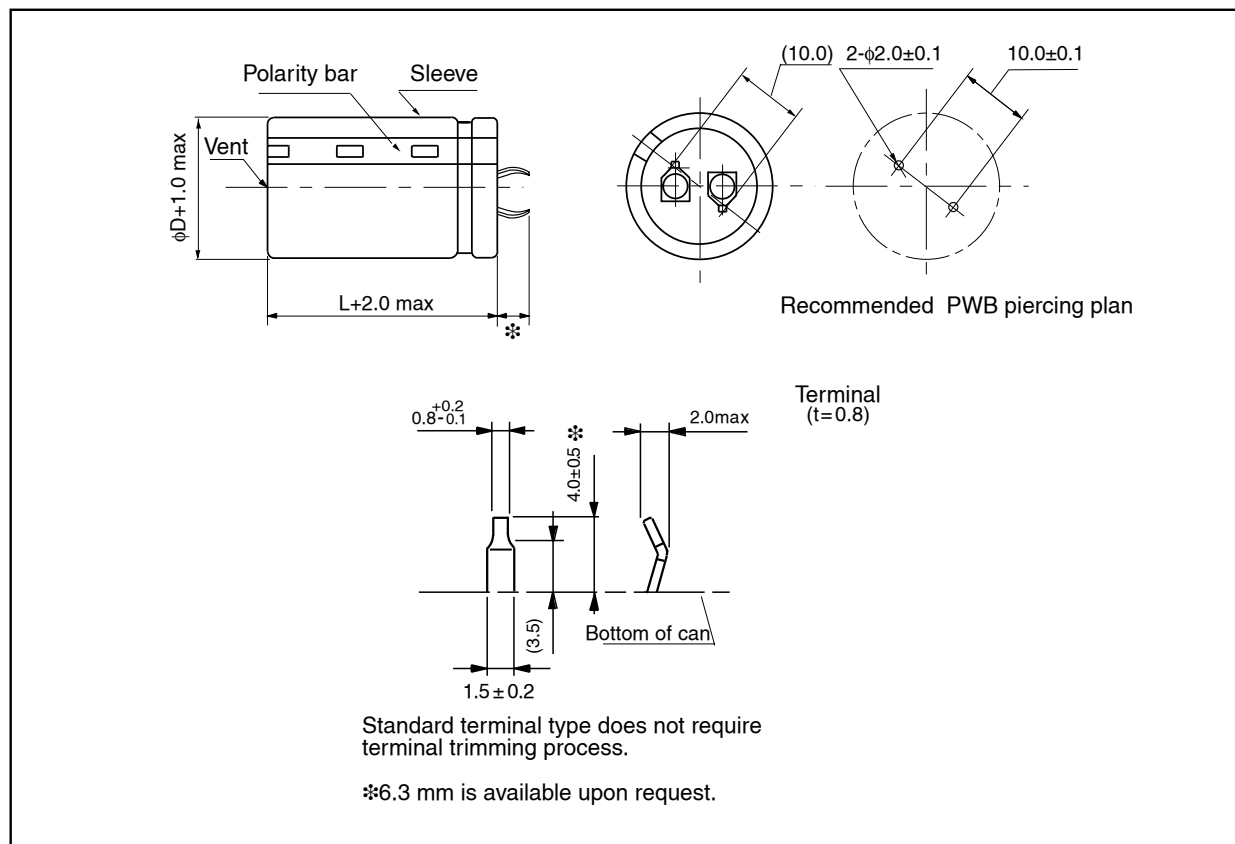
- Recommended Applications  
Smoothing circuits, AC adaptor,

(\*\*\*) Regarding USA product,  
Please check ACOM'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 $\mu$ F	33 to 820 $\mu$ F
Capacitance Tolerance	$\pm 20$ % (120Hz/+20°C)	
DC Leakage Current	$3\sqrt{CV}$ ( $\mu$ A) max. after 5 minutes application of rated working voltage at +20°C. C: Capacitance( $\mu$ F) V: W.V. (V.DC)	
tan $\delta$	Please see the attached standard products list	
Frequency Correction Factor for Ripple Current	Frequency (Hz)	
	Correction Factor	50    60    100    120    500    1k    10k to
	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 ( $\leq$ rated DC working voltage) at +85°C, the capacitor shall meet the following limits.	
	Capacitance change	$\pm 20$ % of initial measured value
	tan $\delta$	$\leq 200$ % of initial specified value
Shelf Life	After storage for 1000 hours at +85 $\pm 2$ °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance.(With voltage treatment)	

#### Dimensions in mm (not to scale)



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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
16	10000	22	30	3.78	0.50	ECEC1CP103BB	ECEC1CP103BJ	200
		25	25	3.78	0.50	ECEC1CP103CB	ECEC1CP103CJ	200
	12000	22	30	4.52	0.50	ECEC1CP123BB	ECEC1CP123BJ	200
		25	25	4.52	0.50	ECEC1CP123CB	ECEC1CP123CJ	200
	15000	22	35	5.26	0.50	ECEC1CP153BB	ECEC1CP153BJ	200
		25	30	5.26	0.50	ECEC1CP153CB	ECEC1CP153CJ	200
	18000	22	40	5.57	0.50	ECEC1CP183BB	ECEC1CP183BJ	200
		25	30	5.57	0.50	ECEC1CP183CB	ECEC1CP183CJ	200
	22000	22	45	6.10	0.50	ECEC1CP223BB	ECEC1CP223BJ	200
			35	6.10	0.50	ECEC1CP223CB	ECEC1CP223CJ	200
			30	6.10	0.50	ECEC1CP223DB	ECEC1CP223DJ	200
	27000	25	45	6.31	0.50	ECEC1CP273CB	ECEC1CP273CJ	200
		30	35	6.31	0.50	ECEC1CP273DB	ECEC1CP273DJ	100
	33000	25	50	6.84	0.50	ECEC1CP333CB	ECEC1CP333CJ	200
			40	6.84	0.50	ECEC1CP333DB	ECEC1CP333DJ	100
			30	6.84	0.50	ECEC1CP333EB	ECEC1CP333EJ	200
	39000	30	45	6.94	0.56	ECEC1CP393DB	ECEC1CP393DJ	100
			35	6.94	0.56	ECEC1CP393EB	ECEC1CP393EJ	100
	47000	30	50	7.47	0.64	ECEC1CP473DB	ECEC1CP473DJ	100
			40	7.47	0.64	ECEC1CP473EB	ECEC1CP473EJ	100
56000	35	45	8.73	0.73	ECEC1CP563EB	ECEC1CP563EJ	100	
68000	35	50	9.05	0.85	ECEC1CP683EB	ECEC1CP683EJ	100	
25	6800	22	30	3.47	0.40	ECEC1EP682BB	ECEC1EP682BJ	200
		25	25	3.47	0.40	ECEC1EP682CB	ECEC1EP682CJ	200
	8200	22	30	3.57	0.40	ECEC1EP822BB	ECEC1EP822BJ	200
		25	25	3.57	0.40	ECEC1EP822CB	ECEC1EP822CJ	200
	10000	22	35	3.78	0.40	ECEC1EP103BB	ECEC1EP103BJ	200
			30	3.78	0.40	ECEC1EP103CB	ECEC1EP103CJ	200
			25	3.78	0.40	ECEC1EP103DB	ECEC1EP103DJ	200
	12000	22	40	4.10	0.40	ECEC1EP123BB	ECEC1EP123BJ	200
			35	4.10	0.40	ECEC1EP123CB	ECEC1EP123CJ	200
			30	4.10	0.40	ECEC1EP123DB	ECEC1EP123DJ	200
	15000	22	50	4.63	0.40	ECEC1EP153BB	ECEC1EP153BJ	200
			40	4.63	0.40	ECEC1EP153CB	ECEC1EP153CJ	200
			30	4.63	0.40	ECEC1EP153DB	ECEC1EP153DJ	200
	18000	25	45	5.47	0.40	ECEC1EP183CB	ECEC1EP183CJ	200
			35	5.47	0.40	ECEC1EP183DB	ECEC1EP183DJ	100
	22000	25	50	6.10	0.40	ECEC1EP223CB	ECEC1EP223CJ	200
			40	6.10	0.40	ECEC1EP223DB	ECEC1EP223DJ	100
	27000	30	45	6.21	0.40	ECEC1EP273DB	ECEC1EP273DJ	100
			35	6.21	0.40	ECEC1EP273EB	ECEC1EP273EJ	100
	33000	30	50	6.84	0.40	ECEC1EP333DB	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.)

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■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Qty (pcs)	
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)		
25	33000	35	40	6.84	0.40	ECEC1EP333EB	ECEC1EP333EJ	100	
	39000	35	45	7.36	0.46	ECEC1EP393EB	ECEC1EP393EJ	100	
	47000	35	50	8.00	0.54	ECEC1EP473EB	ECEC1EP473EJ	100	
35	4700	22	30	3.26	0.35	ECEC1VP472BB	ECEC1VP472BJ	200	
		25	25	3.26	0.35	ECEC1VP472CB	ECEC1VP472CJ	200	
	5600	22	30	3.36	0.35	ECEC1VP562BB	ECEC1VP562BJ	200	
		25	25	3.36	0.35	ECEC1VP562CB	ECEC1VP562CJ	200	
	6800	22	35	3.68	0.35	ECEC1VP682BB	ECEC1VP682BJ	200	
		25	30	3.68	0.35	ECEC1VP682CB	ECEC1VP682CJ	200	
	8200	22	40	4.00	0.35	ECEC1VP822BB	ECEC1VP822BJ	200	
		25	35	4.00	0.35	ECEC1VP822CB	ECEC1VP822CJ	200	
	10000	22	45	4.42	0.35	ECEC1VP103BB	ECEC1VP103BJ	200	
			40	4.42	0.35	ECEC1VP103CB	ECEC1VP103CJ	200	
		30	30	4.42	0.35	ECEC1VP103DB	ECEC1VP103DJ	200	
		35	25	4.42	0.35	ECEC1VP103EB	ECEC1VP103EJ	200	
	12000	25	45	5.05	0.35	ECEC1VP123CB	ECEC1VP123CJ	200	
		30	35	5.05	0.35	ECEC1VP123DB	ECEC1VP123DJ	100	
		35	30	5.05	0.35	ECEC1VP123EB	ECEC1VP123EJ	200	
	15000	25	50	5.57	0.35	ECEC1VP153CB	ECEC1VP153CJ	200	
			40	5.57	0.35	ECEC1VP153DB	ECEC1VP153DJ	100	
		35	30	5.57	0.35	ECEC1VP153EB	ECEC1VP153EJ	200	
	18000	30	45	5.68	0.35	ECEC1VP183DB	ECEC1VP183DJ	100	
		35	35	5.68	0.35	ECEC1VP183EB	ECEC1VP183EJ	100	
	22000	30	50	6.10	0.35	ECEC1VP223DB	ECEC1VP223DJ	100	
		35	40	6.10	0.35	ECEC1VP223EB	ECEC1VP223EJ	100	
	27000	35	45	6.84	0.35	ECEC1VP273EB	ECEC1VP273EJ	100	
	33000	35	50	7.15	0.35	ECEC1VP333EB	ECEC1VP333EJ	100	
	50	3300	22	30	2.73	0.30	ECEC1HP332BB	ECEC1HP332BJ	200
			25	25	2.73	0.30	ECEC1HP332CB	ECEC1HP332CJ	200
		3900	22	30	2.75	0.30	ECEC1HP392BB	ECEC1HP392BJ	200
			25	25	2.75	0.30	ECEC1HP392CB	ECEC1HP392CJ	200
4700		22	35	3.03	0.30	ECEC1HP472BB	ECEC1HP472BJ	200	
		25	30	3.03	0.30	ECEC1HP472CB	ECEC1HP472CJ	200	
		30	25	3.03	0.30	ECEC1HP472DB	ECEC1HP472DJ	200	
5600		22	40	3.42	0.30	ECEC1HP562BB	ECEC1HP562BJ	200	
		25	35	3.42	0.30	ECEC1HP562CB	ECEC1HP562CJ	200	
		30	30	3.42	0.30	ECEC1HP562DB	ECEC1HP562DJ	200	
6800		22	50	3.85	0.30	ECEC1HP682BB	ECEC1HP682BJ	200	
		25	40	3.85	0.30	ECEC1HP682CB	ECEC1HP682CJ	200	
		30	30	3.85	0.30	ECEC1HP682DB	ECEC1HP682DJ	200	
8200		25	45	4.41	0.30	ECEC1HP822CB	ECEC1HP822CJ	200	
		30	35	4.41	0.30	ECEC1HP822DB	ECEC1HP822DJ	100	

Endurance : 85°C 2000h

Terminal Pitch : 10mm

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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
50	10000	25	50	4.97	0.30	ECEC1HP103CB	ECEC1HP103CJ	200
		30	40	4.97	0.30	ECEC1HP103DB	ECEC1HP103DJ	100
		35	30	4.97	0.30	ECEC1HP103EB	ECEC1HP103EJ	200
	12000	30	45	5.58	0.30	ECEC1HP123DB	ECEC1HP123DJ	100
		35	35	5.58	0.30	ECEC1HP123EB	ECEC1HP123EJ	100
	15000	30	50	6.44	0.30	ECEC1HP153DB	ECEC1HP153DJ	100
		35	40	6.44	0.30	ECEC1HP153EB	ECEC1HP153EJ	100
	18000	35	45	6.94	0.30	ECEC1HP183EB	ECEC1HP183EJ	100
22000	35	50	7.57	0.30	ECEC1HP223EB	ECEC1HP223EJ	100	
63	2200	22	30	2.52	0.25	ECEC1JP222BB	ECEC1JP222BJ	200
		25	25	2.52	0.25	ECEC1JP222CB	ECEC1JP222CJ	200
	2700	22	35	3.73	0.25	ECEC1JP272BB	ECEC1JP272BJ	200
		25	30	3.73	0.25	ECEC1JP272CB	ECEC1JP272CJ	200
	3300	22	40	4.10	0.25	ECEC1JP332BB	ECEC1JP332BJ	200
		25	30	4.10	0.25	ECEC1JP332CB	ECEC1JP332CJ	200
		30	25	4.10	0.25	ECEC1JP332DB	ECEC1JP332DJ	200
	3900	22	45	4.44	0.25	ECEC1JP392BB	ECEC1JP392BJ	200
		25	35	4.44	0.25	ECEC1JP392CB	ECEC1JP392CJ	200
		30	30	4.44	0.25	ECEC1JP392DB	ECEC1JP392DJ	200
	4700	22	50	4.86	0.25	ECEC1JP472BB	ECEC1JP472BJ	200
		25	40	4.86	0.25	ECEC1JP472CB	ECEC1JP472CJ	200
		30	30	4.86	0.25	ECEC1JP472DB	ECEC1JP472DJ	200
		35	25	4.86	0.25	ECEC1JP472EB	ECEC1JP472EJ	200
	5600	25	45	5.36	0.25	ECEC1JP562CB	ECEC1JP562CJ	200
		30	35	5.36	0.25	ECEC1JP562DB	ECEC1JP562DJ	100
		35	30	5.36	0.25	ECEC1JP562EB	ECEC1JP562EJ	200
	6800	25	50	5.84	0.25	ECEC1JP682CB	ECEC1JP682CJ	200
		30	40	5.84	0.25	ECEC1JP682DB	ECEC1JP682DJ	100
		35	30	5.84	0.25	ECEC1JP682EB	ECEC1JP682EJ	200
8200	30	45	6.00	0.25	ECEC1JP822DB	ECEC1JP822DJ	100	
	35	35	6.00	0.25	ECEC1JP822EB	ECEC1JP822EJ	100	
10000	35	40	6.52	0.25	ECEC1JP103EB	ECEC1JP103EJ	100	
12000	35	50	7.15	0.25	ECEC1JP123EB	ECEC1JP123EJ	100	
80	1500	22	30	2.26	0.20	ECEC1KP152BB	ECEC1KP152BJ	200
		25	25	2.26	0.20	ECEC1KP152CB	ECEC1KP152CJ	200
	1800	22	35	2.52	0.20	ECEC1KP182BB	ECEC1KP182BJ	200
		25	30	2.52	0.20	ECEC1KP182CB	ECEC1KP182CJ	200
	2200	22	40	2.73	0.20	ECEC1KP222BB	ECEC1KP222BJ	200
		25	30	2.73	0.20	ECEC1KP222CB	ECEC1KP222CJ	200
		30	25	2.73	0.20	ECEC1KP222DB	ECEC1KP222DJ	200
	2700	22	45	2.78	0.20	ECEC1KP272BB	ECEC1KP272BJ	200
25		35	2.78	0.20	ECEC1KP272CB	ECEC1KP272CJ	200	

Endurance : 85°C 2000h

Terminal Pitch : 10mm

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
80	2700	30	30	2.78	0.20	ECEC1KP272DB	ECEC1KP272DJ	200
	3300	22	50	3.21	0.20	ECEC1KP332BB	ECEC1KP332BJ	200
		25	40	3.21	0.20	ECEC1KP332CB	ECEC1KP332CJ	200
		30	30	3.21	0.20	ECEC1KP332DB	ECEC1KP332DJ	200
	3900	25	45	3.59	0.20	ECEC1KP392CB	ECEC1KP392CJ	200
		30	35	3.59	0.20	ECEC1KP392DB	ECEC1KP392DJ	100
	4700	25	50	4.09	0.20	ECEC1KP472CB	ECEC1KP472CJ	200
		30	40	4.09	0.20	ECEC1KP472DB	ECEC1KP472DJ	100
	5600	30	45	4.55	0.20	ECEC1KP562DB	ECEC1KP562DJ	100
		35	35	4.55	0.20	ECEC1KP562EB	ECEC1KP562EJ	100
	6800	30	50	5.16	0.20	ECEC1KP682DB	ECEC1KP682DJ	100
		35	40	5.16	0.20	ECEC1KP682EB	ECEC1KP682EJ	100
8200	35	50	5.83	0.20	ECEC1KP822EB	ECEC1KP822EJ	100	
100	1000	22	30	1.96	0.20	ECEC2AP102BB	ECEC2AP102BJ	200
		25	25	1.96	0.20	ECEC2AP102CB	ECEC2AP102CJ	200
	1200	22	35	2.31	0.20	ECEC2AP122BB	ECEC2AP122BJ	200
		25	30	2.31	0.20	ECEC2AP122CB	ECEC2AP122CJ	200
	1500	22	40	2.57	0.20	ECEC2AP152BB	ECEC2AP152BJ	200
		25	30	2.57	0.20	ECEC2AP152CB	ECEC2AP152CJ	200
		30	25	2.57	0.20	ECEC2AP152DB	ECEC2AP152DJ	200
	1800	22	45	2.84	0.20	ECEC2AP182BB	ECEC2AP182BJ	200
		25	35	2.84	0.20	ECEC2AP182CB	ECEC2AP182CJ	200
		30	30	2.84	0.20	ECEC2AP182DB	ECEC2AP182DJ	200
	2200	22	50	3.14	0.20	ECEC2AP222BB	ECEC2AP222BJ	200
		25	40	3.14	0.20	ECEC2AP222CB	ECEC2AP222CJ	200
		30	30	3.14	0.20	ECEC2AP222DB	ECEC2AP222DJ	200
	2700	25	45	3.71	0.20	ECEC2AP272CB	ECEC2AP272CJ	200
		30	35	3.71	0.20	ECEC2AP272DB	ECEC2AP272DJ	100
	3300	25	50	4.06	0.20	ECEC2AP332CB	ECEC2AP332CJ	200
		30	40	4.06	0.20	ECEC2AP332DB	ECEC2AP332DJ	100
	3900	30	45	4.54	0.20	ECEC2AP392DB	ECEC2AP392DJ	200
		35	35	4.54	0.20	ECEC2AP392EB	ECEC2AP392EJ	100
	4700	30	50	5.13	0.20	ECEC2AP472DB	ECEC2AP472DJ	100
35		40	5.13	0.20	ECEC2AP472EB	ECEC2AP472EJ	100	
5600	35	45	5.75	0.20	ECEC2AP562EB	ECEC2AP562EJ	100	
6800	35	50	6.60	0.20	ECEC2AP682EB	ECEC2QP682EJ	100	
160	330	22	25	1.45	0.15	ECEC2CP331BB	ECEC2CP331BJ	200
		30	30	1.62	0.15	ECEC2CP391BB	ECEC2CP391BJ	200
	390	25	25	1.62	0.15	ECEC2CP391CB	ECEC2CP391CJ	200
		22	30	2.11	0.15	ECEC2CP471BB	ECEC2CP471BJ	200
	470	25	25	2.11	0.15	ECEC2CP471CB	ECEC2CP471CJ	200
		560	22	35	2.25	0.15	ECEC2CP561BB	ECEC2CP561BJ

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		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
160	560	25	30	2.25	0.15	ECEC2CP561CB	ECEC2CP561CJ	200
		30	25	2.25	0.15	ECEC2CP561DB	ECEC2CP561DJ	200
	680	22	40	2.50	0.15	ECEC2CP681BB	ECEC2CP681BJ	200
		25	35	2.50	0.15	ECEC2CP681CB	ECEC2CP681CJ	200
		30	25	2.50	0.15	ECEC2CP681DB	ECEC2CP681DJ	200
	820	22	45	2.75	0.15	ECEC2CP821BB	ECEC2CP821BJ	200
		25	35	2.75	0.15	ECEC2CP821CB	ECEC2CP821CJ	200
		30	30	2.75	0.15	ECEC2CP821DB	ECEC2CP821DJ	200
	1000	25	45	3.00	0.15	ECEC2CP102CB	ECEC2CP102CJ	200
		30	35	3.00	0.15	ECEC2CP102DB	ECEC2CP102DJ	100
		35	30	3.00	0.15	ECEC2CP102EB	ECEC2CP102EJ	200
	1200	25	50	3.25	0.15	ECEC2CP122CB	ECEC2CP122CJ	200
		30	35	3.25	0.15	ECEC2CP122DB	ECEC2CP122DJ	100
		35	30	3.25	0.15	ECEC2CP122EB	ECEC2CP122EJ	200
	1500	30	45	3.73	0.15	ECEC2CP152DB	ECEC2CP152DJ	100
		35	35	3.73	0.15	ECEC2CP152EB	ECEC2CP152EJ	100
1800	30	50	4.20	0.15	ECEC2CP182DB	ECEC2CP182DJ	100	
	35	40	4.20	0.15	ECEC2CP182EB	ECEC2CP182EJ	100	
2200	35	45	4.78	0.15	ECEC2CP222EB	ECEC2CP222EJ	100	
2700	35	50	5.45	0.15	ECEC2CP272EB	ECEC2CP272EJ	100	
180	330	22	25	1.77	0.15	ECEC2PP331BB	ECEC2PP331BJ	200
	390	22	30	1.91	0.15	ECEC2PP391BB	ECEC2PP391BJ	200
		25	25	1.91	0.15	ECEC2PP391CB	ECEC2PP391CJ	200
	470	22	35	2.08	0.15	ECEC2PP471BB	ECEC2PP471BJ	200
		25	25	2.08	0.15	ECEC2PP471CB	ECEC2PP471CJ	200
	560	22	35	2.25	0.15	ECEC2PP561BB	ECEC2PP561BJ	200
		25	30	2.25	0.15	ECEC2PP561CB	ECEC2PP561CJ	200
	680	22	40	2.50	0.15	ECEC2PP681BB	ECEC2PP681BJ	200
		25	35	2.50	0.15	ECEC2PP681CB	ECEC2PP681CJ	200
		30	30	2.50	0.15	ECEC2PP681DB	ECEC2PP681DJ	200
	820	22	45	2.75	0.15	ECEC2PP821BB	ECEC2PP821BJ	200
		25	40	2.75	0.15	ECEC2PP821CB	ECEC2PP821CJ	200
		30	30	2.75	0.15	ECEC2PP821DB	ECEC2PP821DJ	200
	1000	25	45	3.00	0.15	ECEC2PP102CB	ECEC2PP102CJ	200
		30	35	3.00	0.15	ECEC2PP102DB	ECEC2PP102DJ	100
	1200	25	50	3.31	0.15	ECEC2PP122CB	ECEC2PP122CJ	200
30		40	3.31	0.15	ECEC2PP122DB	ECEC2PP122DJ	100	
35		35	3.31	0.15	ECEC2PP122EB	ECEC2PP122EJ	100	
1500	30	45	3.83	0.15	ECEC2PP152DB	ECEC2PP152DJ	100	
	35	40	3.83	0.15	ECEC2PP152EB	ECEC2PP152EJ	100	
1800	30	50	4.32	0.15	ECEC2PP182DB	ECEC2PP182DJ	100	
	35	40	4.32	0.15	ECEC2PP182EB	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.)

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■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
180	2200	35	50	4.92	0.15	ECEC2PP222EB	ECEC2PP222EJ	100
200	270	22	25	1.41	0.15	ECEC2DP271BB	ECEC2DP271BJ	200
	330	22	30	1.56	0.15	ECEC2DP331BB	ECEC2DP331BJ	200
		25	25	1.56	0.15	ECEC2DP331CB	ECEC2DP331CJ	200
	390	22	30	1.68	0.15	ECEC2DP391BB	ECEC2DP391BJ	200
		25	25	1.68	0.15	ECEC2DP391CB	ECEC2DP391CJ	200
	470	22	35	1.85	0.15	ECEC2DP471BB	ECEC2DP471BJ	200
		25	30	1.85	0.15	ECEC2DP471CB	ECEC2DP471CJ	200
		30	25	1.85	0.15	ECEC2DP471DB	ECEC2DP471DJ	200
	560	22	40	2.43	0.15	ECEC2DP561BB	ECEC2DP561BJ	200
		25	35	2.43	0.15	ECEC2DP561CB	ECEC2DP561CJ	200
		30	25	2.43	0.15	ECEC2DP561DB	ECEC2DP561DJ	200
	680	22	45	2.68	0.15	ECEC2DP681BB	ECEC2DP681BJ	200
		25	35	2.68	0.15	ECEC2DP681CB	ECEC2DP681CJ	200
		30	30	2.68	0.15	ECEC2DP681DB	ECEC2DP681DJ	200
	820	25	45	2.93	0.15	ECEC2DP821CB	ECEC2DP821CJ	200
		30	35	2.93	0.15	ECEC2DP821DB	ECEC2DP821DJ	100
		35	25	2.93	0.15	ECEC2DP821EB	ECEC2DP821EJ	200
	1000	25	50	3.25	0.15	ECEC2DP102CB	ECEC2DP102CJ	200
		30	40	3.25	0.15	ECEC2DP102DB	ECEC2DP102DJ	100
		35	30	3.25	0.15	ECEC2DP102EB	ECEC2DP102EJ	200
1200	30	45	3.50	0.15	ECEC2DP122DB	ECEC2DP122DJ	100	
	35	35	3.50	0.15	ECEC2DP122EB	ECEC2DP122EJ	100	
1500	30	50	3.87	0.15	ECEC2DP152DB	ECEC2DP152DJ	100	
	35	40	3.87	0.15	ECEC2DP152EB	ECEC2DP152EJ	100	
1800	35	45	4.32	0.15	ECEC2DP182EB	ECEC2DP182EJ	100	
2200	35	50	4.92	0.15	ECEC2DP222EB	ECEC2DP222EJ	100	
250	180	22	25	1.07	0.15	ECEC2EP181BB	ECEC2EP181BJ	200
	220	22	30	1.17	0.15	ECEC2EP221BB	ECEC2EP221BJ	200
		25	25	1.17	0.15	ECEC2EP221CB	ECEC2EP221CJ	200
	270	22	30	1.31	0.15	ECEC2EP271BB	ECEC2EP271BJ	200
		25	25	1.31	0.15	ECEC2EP271CB	ECEC2EP271CJ	200
	330	22	35	1.75	0.15	ECEC2EP331BB	ECEC2EP331BJ	200
		25	30	1.75	0.15	ECEC2EP331CB	ECEC2EP331CJ	200
		30	25	1.75	0.15	ECEC2EP331DB	ECEC2EP331DJ	200
	390	22	40	1.91	0.15	ECEC2EP391BB	ECEC2EP391BJ	200
		25	35	1.91	0.15	ECEC2EP391CB	ECEC2EP391CJ	200
		30	25	1.91	0.15	ECEC2EP391DB	ECEC2EP391DJ	200
	470	22	45	2.11	0.15	ECEC2EP471BB	ECEC2EP471BJ	200
		25	40	2.11	0.15	ECEC2EP471CB	ECEC2EP471CJ	200
		30	30	2.11	0.15	ECEC2EP471DB	ECEC2EP471DJ	200
	560	25	45	2.25	0.15	ECEC2EP561CB	ECEC2EP561CJ	200

Endurance : 85°C 2000h

Terminal Pitch : 10mm

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## ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.		Min.Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
250	560	30	35	2.25	0.15	ECEC2EP561DB	ECEC2EP561DJ	100
		35	25	2.25	0.15	ECEC2EP561EB	ECEC2EP561EJ	200
	680	25	50	2.50	0.15	ECEC2EP681CB	ECEC2EP681CJ	200
		30	40	2.50	0.15	ECEC2EP681DB	ECEC2EP681DJ	100
		35	30	2.50	0.15	ECEC2EP681EB	ECEC2EP681EJ	200
	820	30	45	2.77	0.15	ECEC2EP821DB	ECEC2EP821DJ	100
		35	35	2.77	0.15	ECEC2EP821EB	ECEC2EP821EJ	100
	1000	30	50	3.32	0.15	ECEC2EP102DB	ECEC2EP102DJ	100
		35	40	3.32	0.15	ECEC2EP102EB	ECEC2EP102EJ	100
	1200	35	45	3.53	0.15	ECEC2EP122EB	ECEC2EP122EJ	100
1500	35	50	4.04	0.15	ECEC2EP152EB	ECEC2EP152EJ	100	
315	100	22	25	0.92	0.15	ECEC2FP101BB	ECEC2FP101BJ	200
	120	22	30	1.01	0.15	ECEC2FP121BB	ECEC2FP121BJ	200
		25	25	1.01	0.15	ECEC2FP121CB	ECEC2FP121CJ	200
	150	22	30	1.11	0.15	ECEC2FP151BB	ECEC2FP151BJ	200
		25	25	1.11	0.15	ECEC2FP151CB	ECEC2FP151CJ	200
	180	22	35	1.21	0.15	ECEC2FP181BB	ECEC2FP181BJ	200
		25	30	1.21	0.15	ECEC2FP181CB	ECEC2FP181CJ	200
		30	25	1.21	0.15	ECEC2FP181DB	ECEC2FP181DJ	200
	220	22	40	1.41	0.15	ECEC2FP221BB	ECEC2FP221BJ	200
		25	35	1.41	0.15	ECEC2FP221CB	ECEC2FP221CJ	200
		30	25	1.41	0.15	ECEC2FP221DB	ECEC2FP221DJ	200
	270	22	45	1.60	0.15	ECEC2FP271BB	ECEC2FP271BJ	200
		25	40	1.60	0.15	ECEC2FP271CB	ECEC2FP271CJ	200
		30	30	1.60	0.15	ECEC2FP271DB	ECEC2FP271DJ	200
	330	25	45	1.82	0.15	ECEC2FP331CB	ECEC2FP331CJ	200
		30	35	1.82	0.15	ECEC2FP331DB	ECEC2FP331DJ	100
		35	25	1.82	0.15	ECEC2FP331EB	ECEC2FP331EJ	200
	390	25	50	2.01	0.15	ECEC2FP391CB	ECEC2FP391CJ	200
		30	35	2.01	0.15	ECEC2FP391DB	ECEC2FP391DJ	100
		35	30	2.01	0.15	ECEC2FP391EB	ECEC2FP391EJ	200
	470	30	40	2.27	0.15	ECEC2FP471DB	ECEC2FP471DJ	100
		35	35	2.27	0.15	ECEC2FP471EB	ECEC2FP471EJ	100
	560	30	45	2.56	0.15	ECEC2FP561DB	ECEC2FP561DJ	100
		35	35	2.56	0.15	ECEC2FP561EB	ECEC2FP561EJ	100
680	35	45	2.87	0.15	ECEC2FP681EB	ECEC2FP681EJ	100	
820	35	50	3.25	0.15	ECEC2FP821EB	ECEC2FP821EJ	100	
350	82	22	25	0.83	0.15	ECEC2VP820BB	ECEC2VP820BJ	200
	100	22	30	0.91	0.15	ECEC2VP101BB	ECEC2VP101BJ	200
	120	22	30	1.00	0.15	ECEC2VP121BB	ECEC2VP121BJ	200
		25	25	1.00	0.15	ECEC2VP121CB	ECEC2VP121CJ	200
	150	22	35	1.12	0.15	ECEC2VP151BB	ECEC2VP151BJ	200

Endurance : 85°C 2000h

Terminal Pitch : 10mm

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## ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
350	150	25	30	1.12	0.15	ECEC2VP151CB	ECEC2VP151CB	200
		30	25	1.12	0.15	ECEC2VP151DB	ECEC2VP151DJ	200
	180	22	40	1.22	0.15	ECEC2VP181BB	ECEC2VP181BJ	200
		25	35	1.22	0.15	ECEC2VP181CB	ECEC2VP181CJ	200
		30	25	1.22	0.15	ECEC2VP181DB	ECEC2VP181DJ	200
	220	22	45	1.44	0.15	ECEC2VP221BB	ECEC2VP221BJ	200
		25	40	1.44	0.15	ECEC2VP221CB	ECEC2VP221CJ	200
		30	30	1.44	0.15	ECEC2VP221DB	ECEC2VP221DJ	200
		35	25	1.44	0.15	ECEC2VP221EB	ECEC2VP221EJ	200
	270	25	45	1.66	0.15	ECEC2VP271CB	ECEC2VP271CJ	200
		30	35	1.66	0.15	ECEC2VP271DB	ECEC2VP271DJ	100
		35	30	1.66	0.15	ECEC2VP271EB	ECEC2VP271EJ	200
	330	25	50	1.88	0.15	ECEC2VP331CB	ECEC2VP331CJ	200
		30	40	1.88	0.15	ECEC2VP331DB	ECEC2VP331DJ	100
		35	30	1.88	0.15	ECEC2VP331EB	ECEC2VP331EJ	200
	390	30	45	2.06	0.15	ECEC2VP391DB	ECEC2VP391DJ	100
		35	35	2.06	0.15	ECEC2VP391EB	ECEC2VP391EJ	100
	470	30	50	2.40	0.15	ECEC2VP471DB	ECEC2VP471DJ	100
		35	40	2.40	0.15	ECEC2VP471EB	ECEC2VP471EJ	100
	560	35	45	2.60	0.15	ECEC2VP561EB	ECEC2VP561EJ	100
680	35	50	2.96	0.15	ECEC2VP681EB	ECEC2VP681EJ	100	
400	68	22	25	0.76	0.15	ECEC2GP680BB	ECEC2GP680BJ	200
	82	22	25	0.83	0.15	ECEC2GP820BB	ECEC2GP820BJ	200
	100	22	30	0.92	0.15	ECEC2GP101BB	ECEC2GP101BJ	200
		25	25	0.92	0.15	ECEC2GP101CB	ECEC2GP101CJ	200
	120	22	35	1.02	0.15	ECEC2GP121BB	ECEC2GP121BJ	200
		25	30	1.02	0.15	ECEC2GP121CB	ECEC2GP121CJ	200
	150	22	40	1.16	0.15	ECEC2GP151BB	ECEC2GP151BJ	200
		25	30	1.16	0.15	ECEC2GP151CB	ECEC2GP151CJ	200
		30	25	1.16	0.15	ECEC2GP151DB	ECEC2GP151DJ	200
	180	22	45	1.44	0.15	ECEC2GP181BB	ECEC2GP181BJ	200
		25	35	1.44	0.15	ECEC2GP181CB	ECEC2GP181CJ	200
		30	30	1.44	0.15	ECEC2GP181DB	ECEC2GP181DJ	200
	220	22	50	1.49	0.15	ECEC2GP221BB	ECEC2GP221BJ	200
		25	40	1.49	0.15	ECEC2GP221CB	ECEC2GP221CJ	200
		30	30	1.49	0.15	ECEC2GP221DB	ECEC2GP221DJ	200
	270	25	45	1.67	0.15	ECEC2GP271CB	ECEC2GP271CJ	200
		30	35	1.67	0.15	ECEC2GP271DB	ECEC2GP271DJ	100
		35	30	1.67	0.15	ECEC2GP271EB	ECEC2GP271EJ	200
	330	30	40	1.90	0.15	ECEC2GP331DB	ECEC2GP331DJ	100
		35	35	1.90	0.15	ECEC2GP331EB	ECEC2GP331EJ	100
390	30	45	2.13	0.15	ECEC2GP391DB	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.)

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### ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
400	390	35	40	2.13	0.15	ECEC2GP391EB	ECEC2GP391EJ	100
	470	35	45	2.39	0.15	ECEC2GP471EB	ECEC2GP471EJ	100
	560	35	50	2.69	0.15	ECEC2GP561EB	ECEC2GP561EJ	100
420	82	22	30	0.83	0.15	ECEC2SP820BB	ECEC2SP820BJ	200
	100	22	30	0.92	0.15	ECEC2SP101BB	ECEC2SP101BJ	200
		25	25	0.92	0.15	ECEC2SP101CB	ECEC2SP101CJ	200
	120	22	35	1.02	0.15	ECEC2SP121BB	ECEC2SP121BJ	200
		25	30	1.02	0.15	ECEC2SP121CB	ECEC2SP121CJ	200
	150	22	40	1.16	0.15	ECEC2SP151BB	ECEC2SP151BJ	200
		25	30	1.16	0.15	ECEC2SP151CB	ECEC2SP151CJ	200
		30	25	1.16	0.15	ECEC2SP151DB	ECEC2SP151DJ	200
	180	22	45	1.44	0.15	ECEC2SP181BB	ECEC2SP181BJ	200
		25	35	1.44	0.15	ECEC2SP181CB	ECEC2SP181CJ	200
		30	30	1.44	0.15	ECEC2SP181DB	ECEC2SP181DJ	200
	220	25	45	1.49	0.15	ECEC2SP221CB	ECEC2SP221CJ	200
		30	30	1.49	0.15	ECEC2SP221DB	ECEC2SP221DJ	200
		35	25	1.49	0.15	ECEC2SP221EB	ECEC2SP221EJ	200
	270	25	50	1.67	0.15	ECEC2SP271CB	ECEC2SP271CJ	200
		30	35	1.67	0.15	ECEC2SP271DB	ECEC2SP271DJ	100
		35	30	1.67	0.15	ECEC2SP271EB	ECEC2SP271EJ	200
	330	30	45	1.90	0.15	ECEC2SP331DB	ECEC2SP331DJ	100
		35	35	1.90	0.15	ECEC2SP331EB	ECEC2SP331EJ	100
	390	30	50	2.13	0.15	ECEC2SP391DB	ECEC2SP391DJ	100
		35	40	2.13	0.15	ECEC2SP391EB	ECEC2SP391EJ	100
	470	35	45	2.39	0.15	ECEC2SP471EB	ECEC2SP471EJ	100
	560	35	50	2.69	0.15	ECEC2SP561EB	ECEC2SP561EJ	100
	450	56	22	25	0.70	0.15	ECEC2WP560BB	ECEC2WP560BJ
68		22	30	0.76	0.15	ECEC2WP680BB	ECEC2WP680BJ	200
82		22	30	0.83	0.15	ECEC2WP820BB	ECEC2WP820BJ	200
		25	25	0.83	0.15	ECEC2WP820CB	ECEC2WP820CJ	200
100		22	35	0.93	0.15	ECEC2WP101BB	ECEC2WP101BJ	200
		25	30	0.93	0.15	ECEC2WP101CB	ECEC2WP101CJ	200
		30	25	0.93	0.15	ECEC2WP101DB	ECEC2WP101DJ	200
120		22	40	1.04	0.15	ECEC2WP121BB	ECEC2WP121BJ	200
		25	30	1.04	0.15	ECEC2WP121CB	ECEC2WP121CJ	200
		30	25	1.04	0.15	ECEC2WP121DB	ECEC2WP121DJ	200
150		22	50	1.19	0.15	ECEC2WP151BB	ECEC2WP151BJ	200
		25	40	1.19	0.15	ECEC2WP151CB	ECEC2WP151CJ	200
		30	30	1.19	0.15	ECEC2WP151DB	ECEC2WP151DJ	200
180		25	45	1.35	0.15	ECEC2WP181CB	ECEC2WP181CJ	200
		30	35	1.35	0.15	ECEC2WP181DB	ECEC2WP181DJ	100
		35	25	1.35	0.15	ECEC2WP181EB	ECEC2WP181EJ	200

Endurance : 85°C 2000h

Terminal Pitch : 10mm

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## ■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQ'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
450	220	25	50	1.55	0.15	ECEC2WP221CB	ECEC2WP221CJ	200
		30	40	1.55	0.15	ECEC2WP221DB	ECEC2WP221DJ	100
		35	30	1.55	0.15	ECEC2WP221EB	ECEC2WP221EJ	200
	270	30	45	1.78	0.15	ECEC2WP271DB	ECEC2WP271DJ	100
		35	35	1.78	0.15	ECEC2WP271EB	ECEC2WP271EJ	100
	330	30	50	2.01	0.15	ECEC2WP331DB	ECEC2WP331DJ	100
		35	40	2.01	0.15	ECEC2WP331EB	ECEC2WP331EJ	100
	390	35	45	2.24	0.15	ECEC2WP391EB	ECEC2WP391EJ	100
	470	35	50	2.53	0.15	ECEC2WP471EB	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(Dia:20mm)

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
16	6800	20	25	3.15	0.50	ECEC1CP682AB	ECEC1CP682AJ	300
	8200	20	30	3.47	0.50	ECEC1CP822AB	ECEC1CP822AJ	300
	10000	20	35	3.78	0.50	ECEC1CP103AB	ECEC1CP103AJ	300
	12000	20	35	4.52	0.50	ECEC1CP123AB	ECEC1CP123AJ	300
	15000	20	40	5.26	0.50	ECEC1CP153AB	ECEC1CP153AJ	300
25	4700	20	25	3.05	0.40	ECEC1EP472AB	ECEC1EP472AJ	300
	5600	20	30	3.36	0.40	ECEC1EP562AB	ECEC1EP562AJ	300
	6800	20	35	3.47	0.40	ECEC1EP682AB	ECEC1EP682AJ	300
	8200	20	40	3.57	0.40	ECEC1EP822AB	ECEC1EP822AJ	300
35	3300	20	25	2.73	0.35	ECEC1VP332AB	ECEC1VP332AJ	300
	3900	20	30	2.94	0.35	ECEC1VP392AB	ECEC1VP392AJ	300
	4700	20	35	3.26	0.35	ECEC1VP472AB	ECEC1VP472AJ	300
	5600	20	40	3.36	0.35	ECEC1VP562AB	ECEC1VP562AJ	300
50	2200	20	25	2.26	0.30	ECEC1HP222AB	ECEC1HP222AJ	300
	2700	20	30	2.52	0.30	ECEC1HP272AB	ECEC1HP272AJ	300
	3300	20	35	2.73	0.30	ECEC1HP332AB	ECEC1HP332AJ	300
	3900	20	40	2.75	0.30	ECEC1HP392AB	ECEC1HP392AJ	300
63	2200	20	35	2.52	0.25	ECEC1JP222AB	ECEC1HP222AJ	300
	2700	20	40	3.73	0.25	ECEC1JP272AB	ECEC1JP272AJ	300
80	1500	20	35	2.26	0.20	ECEC1KP152AB	ECEC1KP152AJ	300
	1800	20	40	2.52	0.20	ECEC1KP182AB	ECEC1KP182AJ	300
100	1000	20	35	1.96	0.20	ECEC2AP102AB	ECEC2AP102AJ	300
	1200	20	40	2.31	0.20	ECEC2AP122AB	ECEC2AP122AJ	300
160	330	20	30	1.45	0.15	ECEC2CP331AB	ECEC2CP331AJ	300
	390	20	35	1.62	0.15	ECEC2CP391AB	ECEC2CP391AJ	300
180	330	20	30	1.77	0.15	ECEC2PP331AB	ECEC2PP331AJ	300
	390	20	35	1.91	0.15	ECEC2PP391AB	ECEC2PP391AJ	300
	470	20	40	2.08	0.15	ECEC2PP471AB	ECEC2PP471AJ	300
200	270	20	30	1.41	0.15	ECEC2DP271AB	ECEC2DP271AJ	300
	330	20	35	1.56	0.15	ECEC2DP331AB	ECEC2DP331AJ	300
250	180	20	30	1.07	0.15	ECEC2EP181AB	ECEC2EP181AJ	300
	220	20	35	1.17	0.15	ECEC2EP221AB	ECEC2EP221AJ	300
315	100	20	30	0.92	0.15	ECEC2FP101AB	ECEC2FP101AJ	300
	120	20	40	1.01	0.15	ECEC2FP121AB	ECEC2FP121AJ	300
350	82	20	30	0.83	0.15	ECEC2VP820AB	ECEC2VP820AJ	300
	100	20	35	0.91	0.15	ECEC2VP101AB	ECEC2VP101AJ	300
400	68	20	30	0.76	0.15	ECEC2GP680AB	ECEC2GP680AJ	300
	82	20	30	0.83	0.15	ECEC2GP820AB	ECEC2GP820AJ	300
	100	20	35	0.92	0.15	ECEC2GP101AB	ECEC2GP101AJ	300
	120	20	40	1.02	0.15	ECEC2GP121AB	ECEC2GP121AJ	300
450	56	20	30	0.70	0.15	ECEC2WP560AB	ECEC2WP560AJ	300
	68	20	35	0.76	0.15	ECEC2WP680AB	ECEC2WP680AJ	300
	82	20	35	0.83	0.15	ECEC2WP820AB	ECEC2WP820AJ	300

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

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■ Standard Products(L:20mm)

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
16	4700	22	20	1.60	0.50	ECEC1CP472BG	ECEC1CP472BJ	200
	6800	25	20	1.80	0.50	ECEC1CP682CG	ECEC1CP682CJ	200
	10000	30	20	2.40	0.50	ECEC1CP103DG	ECEC1CP103DJ	200
	15000	35	20	3.20	0.50	ECEC1CP153EG	ECEC1CP153EJ	200
25	3300	22	20	1.60	0.40	ECEC1EP332BG	ECEC1EP332BJ	200
	4700	25	20	1.80	0.40	ECEC1EP472CG	ECEC1EP472CJ	200
	6800	30	20	2.30	0.40	ECEC1EP682DG	ECEC1EP682DJ	200
	10000	35	20	2.70	0.40	ECEC1EP103EG	ECEC1EP103EJ	200
35	2200	22	20	1.40	0.35	ECEC1VP222BG	ECEC1VP222BJ	200
	3300	25	20	1.70	0.35	ECEC1VP332CG	ECEC1VP332CJ	200
	4700	30	20	2.00	0.35	ECEC1VP472DG	ECEC1VP472DJ	200
	6800	35	20	2.40	0.35	ECEC1VP682EG	ECEC1VP682EJ	200
50	1500	22	20	1.20	0.30	ECEC1HP152BG	ECEC1HP152BJ	200
	2200	25	20	1.40	0.30	ECEC1HP222CG	ECEC1HP222CJ	200
	3300	30	20	1.70	0.30	ECEC1HP332DG	ECEC1HP332DJ	200
	4700	35	20	2.10	0.30	ECEC1HP472EG	ECEC1HP472EJ	200
63	1000	22	20	1.20	0.25	ECEC1JP102BG	ECEC1JP102BJ	200
	1500	25	20	1.30	0.25	ECEC1JP152CG	ECEC1JP152CJ	200
	2200	30	20	1.50	0.25	ECEC1JP222DG	ECEC1JP222DJ	200
	2700	35	20	1.70	0.25	ECEC1JP272EG	ECEC1JP272EJ	200
80	680	22	20	1.00	0.20	ECEC1KP681BG	ECEC1KP681BJ	200
	1000	25	20	1.20	0.20	ECEC1KP102CG	ECEC1KP102CJ	200
	1500	30	20	1.40	0.20	ECEC1KP152DG	ECEC1KP152DJ	200
	2200	35	20	1.70	0.20	ECEC1KP222EG	ECEC1KP222EJ	200
100	470	22	20	1.00	0.20	ECEC2AP471BG	ECEC2AP471BJ	200
	680	25	20	1.10	0.20	ECEC2AP681CG	ECEC2AP681CJ	200
	1000	30	20	1.20	0.20	ECEC2AP102DG	ECEC2AP102DJ	200
	1500	35	20	1.50	0.20	ECEC2AP152EG	ECEC2AP152EJ	200
160	220	22	20	0.75	0.15	ECEC2CP221BG	ECEC2CP221BJ	200
	270	25	20	0.87	0.15	ECEC2CP271CG	ECEC2CP271CJ	200
	390	30	20	1.10	0.15	ECEC2CP391DG	ECEC2CP391DJ	200
	560	35	20	1.30	0.15	ECEC2CP561EG	ECEC2CP561EJ	200
200	150	22	20	0.65	0.15	ECEC2DP151BG	ECEC2DP151BJ	200
	220	25	20	0.87	0.15	ECEC2DP221CG	ECEC2DP221CJ	200
	330	30	20	1.10	0.15	ECEC2DP331DG	ECEC2DP331DJ	200
	470	35	20	1.30	0.15	ECEC2DP471EG	ECEC2DP471EJ	200
250	120	22	20	0.45	0.15	ECEC2EP121BG	ECEC2EP121BJ	200
	150	25	20	0.65	0.15	ECEC2EP151CG	ECEC2EP151CJ	200
	220	30	20	0.87	0.15	ECEC2EP221DG	ECEC2EP221DJ	200
	330	35	20	1.10	0.15	ECEC2EP331EG	ECEC2EP331EJ	200
400	47	22	20	0.25	0.15	ECEC2GP470BG	ECEC2GP470BJ	200
	68	25	20	0.35	0.15	ECEC2GP680CG	ECEC2GP680CJ	200

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

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### ■ Standard Products(L:20mm)

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	Part No.	Min.PackagingQ'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan δ (120Hz) (+20°C)	P.V.C Sleeve Terminal Length 4.0mm (Without P.V.C.plate)	PET sleeve Terminal Length 4.0mm (Without P.V.C.plate)	
400	100	30	20	0.47	0.15	ECEC2GP101DG	ECEC2GP101DJ	200
	150	35	20	0.60	0.15	ECEC2GP151EG	ECEC2GP151EJ	200
450	33	22	20	0.20	0.15	ECEC2WP330BG	ECEC2WP330BJ	200
	47	25	20	0.29	0.15	ECEC2WP470CG	ECEC2WP470CJ	200
	68	30	20	0.38	0.15	ECEC2WP680DG	ECEC2WP680DJ	200
	100	35	20	0.52	0.15	ECEC2WP101EG	ECEC2WP101EJ	200

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

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