

Snap-in Type

Series: HB Type : TS

■ Features Endurance: 105°C 2000 h
20 to 25 % smaller than series TS-HA

Country of Origin
Japan
U.S.A(***)
Malaysia



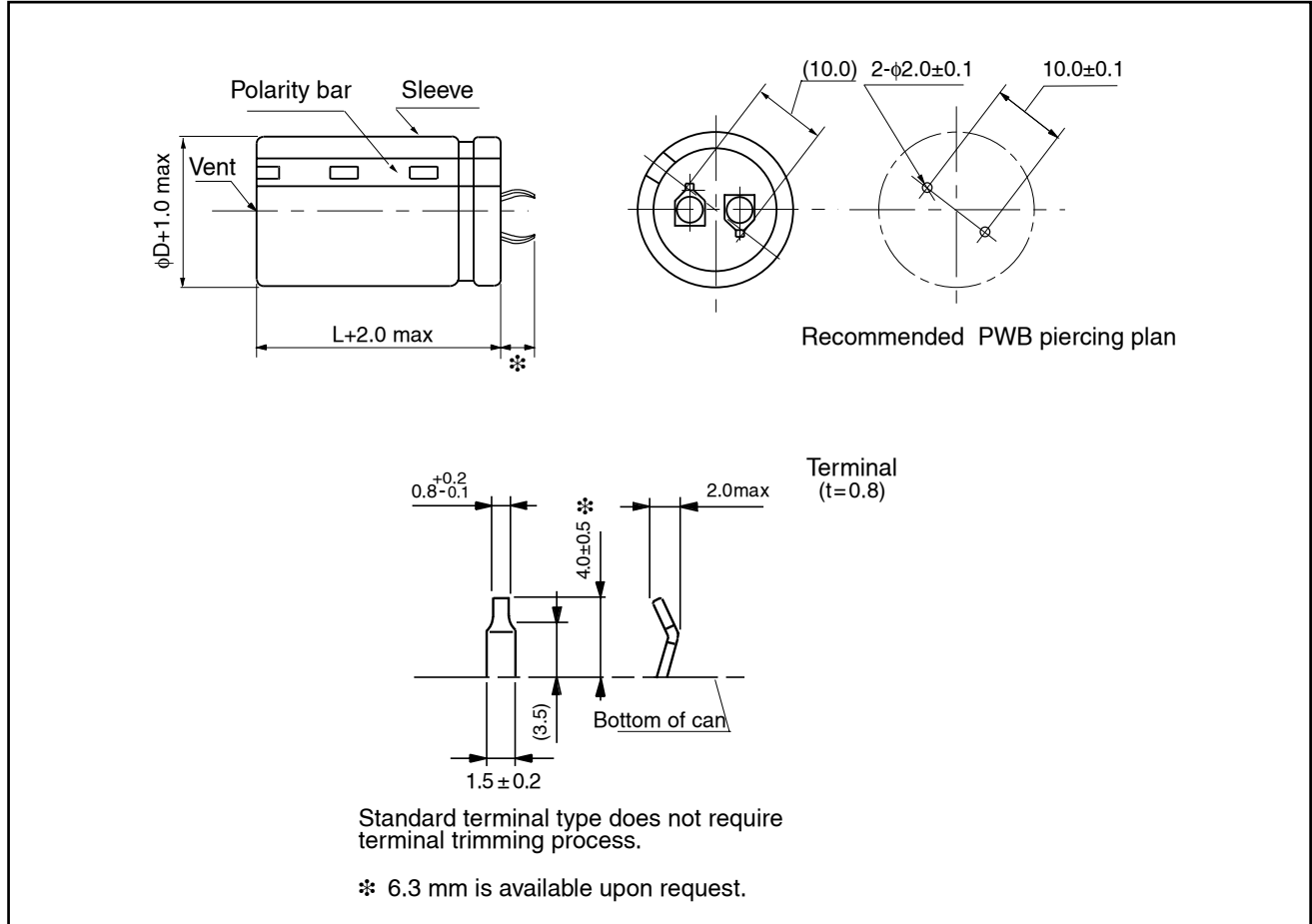
■ Recommended Applications
Smoothing circuits, AC adaptor

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

■ Specifications

Category temp. range	-40 to +105°C		-25 to +105°C					
Rated W.V. Range	160 to 250 V .DC		315 to 450 V .DC					
Nominal Cap. Range	330 to 2700 μ F		82 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	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 +105°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 +105±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.Packaging Q'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°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	470	22	30	1.4	0.15	ECEC2CB471BB	ECEC2CB471BJ	200
	560	22	35	1.5	0.15	ECEC2CB561BB	ECEC2CB561BJ	200
	680	22	40	1.7	0.15	ECEC2CB681BB	ECEC2CB681BJ	200
		25	30	1.7	0.15	ECEC2CB681CB	ECEC2CB681CJ	200
	820	22	45	2.0	0.15	ECEC2CB821BB	ECEC2CB821BJ	200
		25	35	2.0	0.15	ECEC2CB821CB	ECEC2CB821CJ	200
	1000	22	50	2.2	0.15	ECEC2CB102BB	ECEC2CB102BJ	200
		25	40	2.2	0.15	ECEC2CB102CB	ECEC2CB102CJ	200
		30	30	2.2	0.15	ECEC2CB102DB	ECEC2CB102DJ	200
		35	25	2.2	0.15	ECEC2CB102EB	ECEC2CB102EJ	200
	1200	25	45	2.3	0.15	ECEC2CB122CB	ECEC2CB122CJ	200
		30	35	2.3	0.15	ECEC2CB122DB	ECEC2CB122DJ	100
		35	30	2.3	0.15	ECEC2CB122EB	ECEC2CB122EJ	200
	1500	30	40	2.5	0.15	ECEC2CB152DB	ECEC2CB152DJ	100
		35	30	2.5	0.15	ECEC2CB152EB	ECEC2CB152EJ	200
	1800	30	45	2.7	0.15	ECEC2CB182DB	ECEC2CB182DJ	100
35		35	2.7	0.15	ECEC2CB182EB	ECEC2CB182EJ	100	
2200	35	45	2.9	0.15	ECEC2CB222EB	ECEC2CB222EJ	100	
2700	35	50	3.1	0.15	ECEC2CB272EB	ECEC2CB272EJ	100	
180	560	25	30	1.5	0.15	ECEC2PB561CB	ECEC2PB561CJ	200
	680	22	45	1.7	0.15	ECEC2PB681BB	ECEC2PB681BJ	200
		25	35	1.7	0.15	ECEC2PB681CB	ECEC2PB681CJ	200
	820	22	50	2.0	0.15	ECEC2PB821BB	ECEC2PB821BJ	200
		25	40	2.0	0.15	ECEC2PB821CB	ECEC2PB821CJ	200
		30	30	2.0	0.15	ECEC2PB821DB	ECEC2PB821DJ	200
	1000	25	45	2.2	0.15	ECEC2PB102CB	ECEC2PB102CJ	200
		30	35	2.2	0.15	ECEC2PB102DB	ECEC2PB102DJ	100
	1200	25	50	2.3	0.15	ECEC2PB122CB	ECEC2PB122CJ	200
		30	40	2.3	0.15	ECEC2PB122DB	ECEC2PB122DJ	100
		35	30	2.3	0.15	ECEC2PB122EB	ECEC2PB122EJ	200
	1500	30	45	2.5	0.15	ECEC2PB152DB	ECEC2PB152DJ	100
35		35	2.5	0.15	ECEC2PB152EB	ECEC2PB152EJ	100	
200	390	22	30	1.3	0.15	ECEC2DB391BB	ECEC2DB391BJ	200
		25	25	1.3	0.15	ECEC2DB391CB	ECEC2DB391CJ	200
	470	22	35	1.4	0.15	ECEC2DB471BB	ECEC2DB471BJ	200
		25	30	1.4	0.15	ECEC2DB471CB	ECEC2DB471CJ	200
	560	22	40	1.5	0.15	ECEC2DB561BB	ECEC2DB561BJ	200
		25	30	1.5	0.15	ECEC2DB561CB	ECEC2DB561CJ	200
		30	25	1.5	0.15	ECEC2DB561DB	ECEC2DB561DJ	200
	680	22	45	1.7	0.15	ECEC2DB681BB	ECEC2DB681BJ	200
		25	35	1.7	0.15	ECEC2DB681CB	ECEC2DB681CJ	200
	820	25	45	2.0	0.15	ECEC2DB821CB	ECEC2DB821CJ	200

Endurance : 105°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.		Min. Packaging Qty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°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)	
200	820	30	30	2.0	0.15	ECEC2DB821DB	ECEC2DB821DJ	200
		35	25	2.0	0.15	ECEC2DB821EB	ECEC2DB821EJ	200
	1000	25	50	2.2	0.15	ECEC2DB102CB	ECEC2DB102CJ	200
		30	35	2.2	0.15	ECEC2DB102DB	ECEC2DB102DJ	100
		35	30	2.2	0.15	ECEC2DB102EB	ECEC2DB102EJ	200
	1200	30	40	2.3	0.15	ECEC2DB122DB	ECEC2DB122DJ	100
		35	35	2.3	0.15	ECEC2DB122EB	ECEC2DB122EJ	100
	1500	30	50	2.5	0.15	ECEC2DB152DB	ECEC2DB152DJ	100
35		40	2.5	0.15	ECEC2DB152EB	ECEC2DB152EJ	100	
1800	35	45	2.7	0.15	ECEC2DB182EB	ECEC2DB182EJ	100	
2200	35	50	2.9	0.15	ECEC2DB222EB	ECEC2DB222EJ	100	
250	330	25	30	1.2	0.15	ECEC2EB331CB	ECEC2EB331CJ	200
	390	30	25	1.3	0.15	ECEC2EB391DB	ECEC2EB391DJ	200
	470	22	50	1.4	0.15	ECEC2EB471BB	ECEC2EB471BJ	200
		25	40	1.4	0.15	ECEC2EB471CB	ECEC2EB471CJ	200
		30	30	1.4	0.15	ECEC2EB471DB	ECEC2EB471DJ	200
	560	25	45	1.5	0.15	ECEC2EB561CB	ECEC2EB561CJ	200
		35	25	1.5	0.15	ECEC2EB561EB	ECEC2EB561EJ	200
	680	25	50	1.7	0.15	ECEC2EB681CB	ECEC2EB681CJ	200
		30	40	1.7	0.15	ECEC2EB681DB	ECEC2EB681DJ	100
		35	30	1.7	0.15	ECEC2EB681EB	ECEC2EB681EJ	200
	820	30	45	2.0	0.15	ECEC2EB821DB	ECEC2EB821DJ	100
		35	35	2.0	0.15	ECEC2EB821EB	ECEC2EB821EJ	100
	1000	30	50	2.2	0.15	ECEC2EB102DB	ECEC2EB102DJ	100
		35	40	2.2	0.15	ECEC2EB102EB	ECEC2EB102EJ	100
1200	35	45	2.3	0.15	ECEC2EB122EB	ECEC2EB122EJ	100	
1500	35	50	2.5	0.15	ECEC2EB152EB	ECEC2EB152EJ	100	
315	180	25	30	0.9	0.15	ECEC2FB181CB	ECEC2FB181CJ	200
	220	25	35	1.0	0.15	ECEC2FB221CB	ECEC2FB221CJ	200
		30	25	1.0	0.15	ECEC2FB221DB	ECEC2FB221DJ	200
	270	22	50	1.1	0.15	ECEC2FB271BB	ECEC2FB271BJ	200
		25	40	1.1	0.15	ECEC2FB271CB	ECEC2FB271CJ	200
		30	30	1.1	0.15	ECEC2FB271DB	ECEC2FB271DJ	200
	330	25	45	1.2	0.15	ECEC2FB331CB	ECEC2FB331CJ	200
		30	35	1.2	0.15	ECEC2FB331DB	ECEC2FB331DJ	100
	390	25	50	1.3	0.15	ECEC2FB391CB	ECEC2FB391CJ	200
		30	40	1.3	0.15	ECEC2FB391DB	ECEC2FB391DJ	100
		35	30	1.3	0.15	ECEC2FB391EB	ECEC2FB391EJ	200
	470	30	45	1.4	0.15	ECEC2FB471DB	ECEC2FB471DJ	100
		35	35	1.4	0.15	ECEC2FB471EB	ECEC2FB471EJ	100
	560	30	50	1.5	0.15	ECEC2FB561DB	ECEC2FB561DJ	100
35		40	1.5	0.15	ECEC2FB561EB	ECEC2FB561EJ	100	

Endurance : 105°C 2000h

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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) (+105°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)		
315	680	35	45	1.7	0.15	ECEC2FB681EB	ECEC2FB681EJ	100	
	820	35	50	2.0	0.15	ECEC2FB821EB	ECEC2FB821EJ	100	
350	120	22	30	0.75	0.15	ECEC2VB121BB	ECEC2VB121BJ	200	
		25	25	0.75	0.15	ECEC2VB121CB	ECEC2VB121CJ	200	
	150	22	35	0.82	0.15	ECEC2VB151BB	ECEC2VB151BJ	200	
		180	22	40	0.90	0.15	ECEC2VB181BB	ECEC2VB181BJ	200
			25	30	0.90	0.15	ECEC2VB181CB	ECEC2VB181CJ	200
	180	30	25	0.90	0.15	ECEC2VB181DB	ECEC2VB181DJ	200	
		220	22	45	1.0	0.15	ECEC2VB221BB	ECEC2VB221BJ	200
			25	35	1.0	0.15	ECEC2VB221CB	ECEC2VB221CJ	200
	270	25	45	1.1	0.15	ECEC2VB271CB	ECEC2VB271CJ	200	
			30	30	1.1	0.15	ECEC2VB271DB	ECEC2VB271DJ	200
		35	25	1.1	0.15	ECEC2VB271EB	ECEC2VB271EJ	200	
	330		25	50	1.2	0.15	ECEC2VB331CB	ECEC2VB331CJ	200
		30	40	1.2	0.15	ECEC2VB331DB	ECEC2VB331DJ	100	
		35	30	1.2	0.15	ECEC2VB331EB	ECEC2VB331EJ	200	
	390	30	45	1.3	0.15	ECEC2VB391DB	ECEC2VB391DJ	100	
			35	30	1.3	0.15	ECEC2VB391EB	ECEC2VB391EJ	200
	470	30	50	1.4	0.15	ECEC2VB471DB	ECEC2VB471DJ	100	
	560	35	45	1.5	0.15	ECEC2VB561EB	ECEC2VB561EJ	100	
	680	35	50	1.7	0.15	ECEC2VB681EB	ECEC2VB681EJ	100	
	400	82	22	30	0.64	0.15	ECEC2GB820BB	ECEC2GB820BJ	200
100			22	30	0.69	0.15	ECEC2GB101BB	ECEC2GB101BJ	200
		25	25	0.69	0.15	ECEC2GB101CB	ECEC2GB101CJ	200	
120		22	35	0.75	0.15	ECEC2GB121BB	ECEC2GB121BJ	200	
		25	30	0.75	0.15	ECEC2GB121CB	ECEC2GB121CJ	200	
150		22	40	0.82	0.15	ECEC2GB151BB	ECEC2GB151BJ	200	
			25	30	0.82	0.15	ECEC2GB151CB	ECEC2GB151CJ	200
		30	25	0.82	0.15	ECEC2GB151DB	ECEC2GB151DJ	200	
180		22	45	0.95	0.15	ECEC2GB181BB	ECEC2GB181BJ	200	
			25	35	0.95	0.15	ECEC2GB181CB	ECEC2GB181CJ	200
		30	30	0.95	0.15	ECEC2GB181DB	ECEC2GB181DJ	200	
220		25	45	1.1	0.15	ECEC2GB221CB	ECEC2GB221CJ	200	
			30	30	1.1	0.15	ECEC2GB221DB	ECEC2GB221DJ	200
		35	25	1.1	0.15	ECEC2GB221EB	ECEC2GB221EJ	200	
270		25	50	1.2	0.15	ECEC2GB271CB	ECEC2GB271CJ	200	
			30	35	1.2	0.15	ECEC2GB271DB	ECEC2GB271DJ	100
		35	30	1.2	0.15	ECEC2GB271EB	ECEC2GB271EJ	200	
330		30	45	1.35	0.15	ECEC2GB331DB	ECEC2GB331DJ	100	
			35	35	1.35	0.15	ECEC2GB331EB	ECEC2GB331EJ	100
390		30	50	1.55	0.15	ECEC2GB391DB	ECEC2GB391DJ	100	
	35		40	1.55	0.15	ECEC2GB391EB	ECEC2GB391EJ	100	

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		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°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	470	35	45	1.75	0.15	ECEC2GB471EB	ECEC2GB471EJ	100
	560	35	50	1.80	0.15	ECEC2GB561EB	ECEC2GB561EJ	100
450	82	22	30	0.56	0.20	ECEC2WB820BB	ECEC2WB820BJ	200
		100	22	35	0.64	0.20	ECEC2WB101BB	ECEC2WB101BJ
	25		30	0.64	0.20	ECEC2WB101CB	ECEC2WB101CJ	200
	120	22	40	0.72	0.20	ECEC2WB121BB	ECEC2WB121BJ	200
		25	35	0.72	0.20	ECEC2WB121CB	ECEC2WB121CJ	200
	150	22	50	0.79	0.20	ECEC2WB151BB	ECEC2WB151BJ	200
		25	40	0.79	0.20	ECEC2WB151CB	ECEC2WB151CJ	200
		30	30	0.79	0.20	ECEC2WB151DB	ECEC2WB151DJ	200
	180	25	45	0.87	0.20	ECEC2WB181CB	ECEC2WB181CJ	200
		30	35	0.87	0.20	ECEC2WB181DB	ECEC2WB181DJ	100
	220	25	50	1.00	0.20	ECEC2WB221CB	ECEC2WB221CJ	200
		30	40	1.00	0.20	ECEC2WB221DB	ECEC2WB221DJ	100
	270	30	45	1.19	0.20	ECEC2WB271DB	ECEC2WB271DJ	100
		35	35	1.19	0.20	ECEC2WB271EB	ECEC2WB271EJ	100
	330	30	50	1.38	0.20	ECEC2WB331DB	ECEC2WB331DJ	100
		35	40	1.38	0.20	ECEC2WB331EB	ECEC2WB331EJ	100
390	35	45	1.55	0.20	ECEC2WB391EB	ECEC2WB391EJ	100	
470	35	50	1.74	0.20	ECEC2WB471EB	ECEC2WB471EJ	100	

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