

Snap-in Type

Series: MC Type : TS

■ Features Endurance: 105°C 2000 h

■ Recommended Applications
Smoothing circuits, AC adaptor

Country of Origin

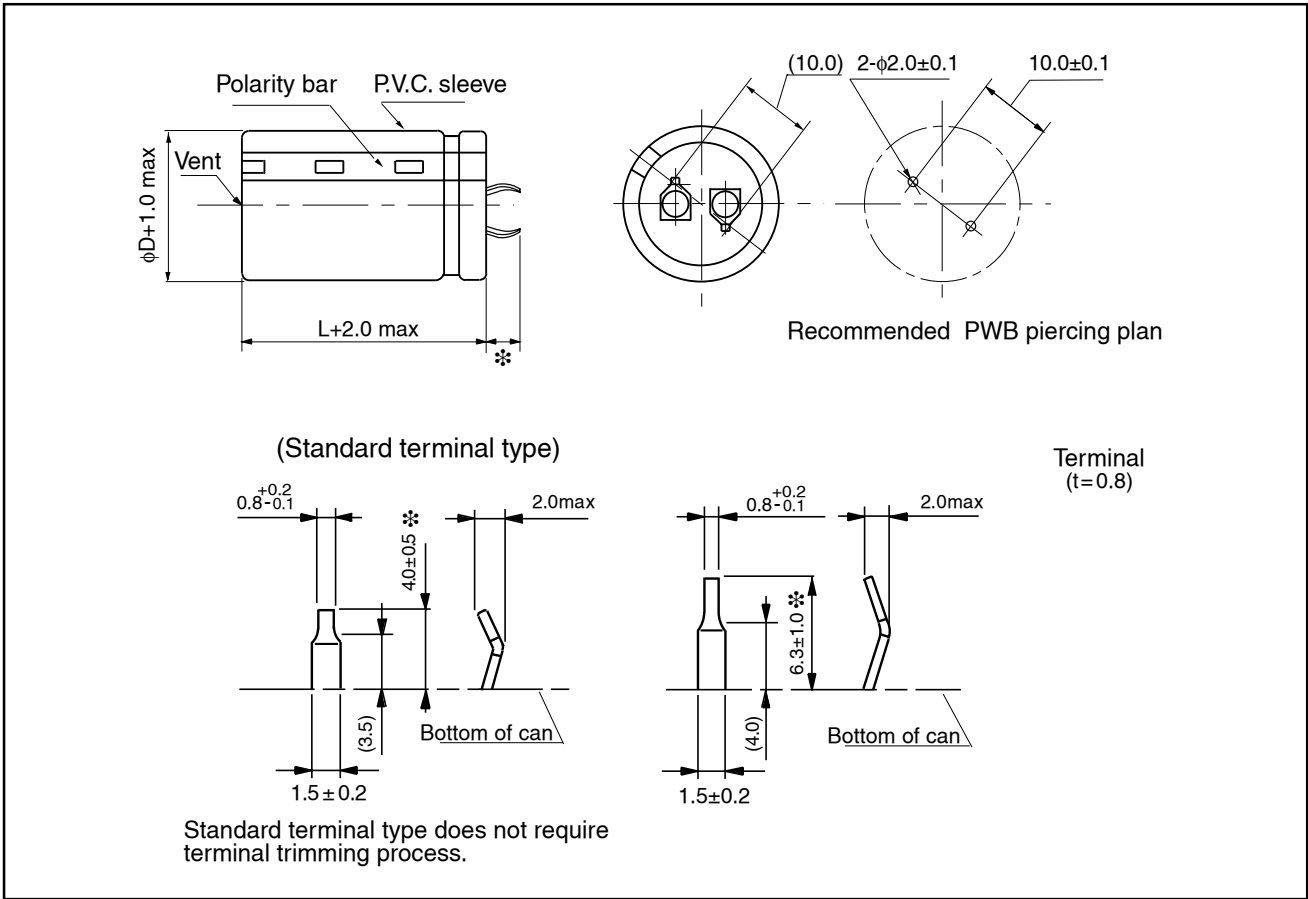
Japan
U.S.A
Malaysia



■ Specifications

Category temp. range	-40 to +105°C				-25 to +105°C				
Rated W.V. Range	200 to 250 V .DC				400 to 450 V .DC				
Nominal Cap. Range	120 to 1500 μ F				39 to 390 μ F				
Capacitance Tolerance	±20 % (120Hz/+20°C)								
DC Leakage Current	0.03 CV (μA) or 3 mA, whichever is smaller, 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							
	DC leakage current	≤ 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)								
Overvoltage	Please contact the factory for detailed information on test methods and standards relating overvoltage characteristics.								

■ Dimensions in mm (not to scale)



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■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.		MinPackagingQty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	Terminal Length 6.3mm (Without P.V.C.plate)	(Standard Terminals) Terminal Length 4.0mm (Without P.V.C.plate)	
200	180	22	25	0.90	0.15	ECES2DC181BB	ECEC2DC181BB	200
	220	22	30	1.00	0.15	ECES2DC221BB	ECEC2DC221BB	200
		25	25	1.00	0.15	ECES2DC221CB	ECEC2DC221CB	200
	270	22	35	1.10	0.15	ECES2DC271BB	ECEC2DC271BB	200
		25	30	1.10	0.15	ECES2DC271CB	ECEC2DC271CB	200
		30	25	1.10	0.15	ECES2DC271DB	ECEC2DC271DB	100
	330	22	40	1.20	0.15	ECES2DC331BB	ECEC2DC331BB	200
		25	30	1.20	0.15	ECES2DC331CB	ECEC2DC331CB	200
		30	25	1.20	0.15	ECES2DC331DB	ECEC2DC331DB	100
	390	22	45	1.30	0.15	ECES2DC391BB	ECEC2DC391BB	200
		25	35	1.30	0.15	ECES2DC391CB	ECEC2DC391CB	200
		30	30	1.30	0.15	ECES2DC391DB	ECEC2DC391DB	100
	470	22	50	1.40	0.15	ECES2DC471BB	ECEC2DC471BB	200
		25	40	1.40	0.15	ECES2DC471CB	ECEC2DC471CB	200
		30	30	1.40	0.15	ECES2DC471DB	ECEC2DC471DB	100
	560	25	45	1.50	0.15	ECES2DC561CB	ECEC2DC561CB	200
		30	35	1.50	0.15	ECES2DC561DB	ECEC2DC561DB	100
		35	30	1.50	0.15	ECES2DC561EB	ECEC2DC561EB	100
	680	25	50	1.70	0.15	ECES2DC681CB	ECEC2DC681CB	200
		30	40	1.70	0.15	ECES2DC681DB	ECEC2DC681DB	100
		35	30	1.70	0.15	ECES2DC681EB	ECEC2DC681EB	100
	820	30	45	2.00	0.15	ECES2DC821DB	ECEC2DC821DB	100
		35	35	2.00	0.15	ECES2DC821EB	ECEC2DC821EB	100
	1000	30	50	2.20	0.15	ECES2DC102DB	ECEC2DC102DB	100
		35	40	2.20	0.15	ECES2DC102EB	ECEC2DC102EB	100
	1200	35	45	2.30	0.15	ECES2DC122EB	ECEC2DC122EB	100
	1500	35	50	2.50	0.15	ECES2DC152EB	ECEC2DC152EB	100
250	120	22	25	0.70	0.15	ECES2EC121BB	ECEC2EC121BB	200
	150	22	30	0.80	0.15	ECES2EC151BB	ECEC2EC151BB	200
		25	25	0.80	0.15	ECES2EC151CB	ECEC2EC151CB	200
	180	22	35	0.90	0.15	ECES2EC181BB	ECEC2EC181BB	200
		25	30	0.90	0.15	ECES2EC181CB	ECEC2EC181CB	200
	220	22	40	1.00	0.15	ECES2EC221BB	ECEC2EC221BB	200
		25	30	1.00	0.15	ECES2EC221CB	ECEC2EC221CB	200
		30	25	1.00	0.15	ECES2EC221DB	ECEC2EC221DB	100
	270	22	45	1.10	0.15	ECES2EC271BB	ECEC2EC271BB	200
		25	35	1.10	0.15	ECES2EC271CB	ECEC2EC271CB	200
		30	30	1.10	0.15	ECES2EC271DB	ECEC2EC271DB	100
	330	22	50	1.20	0.15	ECES2EC331BB	ECEC2EC331BB	200
		25	40	1.20	0.15	ECES2EC331CB	ECEC2EC331CB	200
		30	30	1.20	0.15	ECES2EC331DB	ECEC2EC331DB	100
	390	25	45	1.30	0.15	ECES2EC391CB	ECEC2EC391CB	200

Endurance : 105°C 2000h

Terminal Pitch : 10mm

When capacitors of φ35xφ45L 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.PackagingQ'ty (pcs)
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	Terminal Length 6.3mm (Without P.V.C.plate)	(Standard Terminals) Terminal Length 4.0mm (Without P.V.C.plate)	
250	390	30	35	1.30	0.15	ECES2EC391DB	ECEC2EC391DB	100
		35	30	1.30	0.15	ECES2EC391EB	ECEC2EC391EB	100
	470	25	50	1.40	0.15	ECES2EC471CB	ECEC2EC471CB	200
		30	40	1.40	0.15	ECES2EC471DB	ECEC2EC471DB	100
		35	30	1.40	0.15	ECES2EC471EB	ECEC2EC471EB	100
	560	30	45	1.50	0.15	ECES2EC561DB	ECEC2EC561DB	100
		35	35	1.50	0.15	ECES2EC561EB	ECEC2EC561EB	100
	680	30	50	1.70	0.15	ECES2EC681DB	ECEC2EC681DB	100
		35	40	1.70	0.15	ECES2EC681EB	ECEC2EC681EB	100
	820	35	45	2.00	0.15	ECES2EC821EB	ECEC2EC821EB	100
400	1000	35	50	2.20	0.15	ECES2EC102EB	ECEC2EC102EB	100
	47	22	25	0.47	0.15	ECES2GC470BB	ECEC2GC470BB	200
	56	22	30	0.51	0.15	ECES2GC560BB	ECEC2GC560BB	200
		25	25	0.51	0.15	ECES2GC560CB	ECEC2GC560CB	200
	68	22	35	0.56	0.15	ECES2GC680BB	ECEC2GC680BB	200
		25	30	0.56	0.15	ECES2GC680CB	ECEC2GC680CB	200
	82	22	40	0.64	0.15	ECES2GC820BB	ECEC2GC820BB	200
		25	30	0.64	0.15	ECES2GC820CB	ECEC2GC820CB	200
		30	25	0.64	0.15	ECES2GC820DB	ECEC2GC820DB	100
	100	22	45	0.69	0.15	ECES2GC101BB	ECEC2GC101BB	200
		25	35	0.69	0.15	ECES2GC101CB	ECEC2GC101CB	200
		30	30	0.69	0.15	ECES2GC101DB	ECEC2GC101DB	100
	120	22	50	0.75	0.15	ECES2GC121BB	ECEC2GC121BB	200
		25	40	0.75	0.15	ECES2GC121CB	ECEC2GC121CB	200
		30	30	0.75	0.15	ECES2GC121DB	ECEC2GC121DB	100
	150	25	45	0.82	0.15	ECES2GC151CB	ECEC2GC151CB	200
		30	35	0.82	0.15	ECES2GC151DB	ECEC2GC151DB	100
		35	30	0.82	0.15	ECES2GC151EB	ECEC2GC151EB	100
	180	25	50	0.90	0.15	ECES2GC181CB	ECEC2GC181CB	200
		30	40	0.90	0.15	ECES2GC181DB	ECEC2GC181DB	100
		35	30	0.90	0.15	ECES2GC181EB	ECEC2GC181EB	100
	220	30	45	1.00	0.15	ECES2GC221DB	ECEC2GC221DB	100
		35	35	1.00	0.15	ECES2GC221EB	ECEC2GC221EB	100
	270	30	50	1.10	0.15	ECES2GC271DB	ECEC2GC271DB	100
		35	40	1.10	0.15	ECES2GC271EB	ECEC2GC271EB	100
	330	35	45	1.20	0.15	ECES2GC331EB	ECEC2GC331EB	100
	390	35	50	1.30	0.15	ECES2GC391EB	ECEC2GC391EB	100
450	39	22	25	0.37	0.15	ECES2WC390BB	ECEC2WC390BB	200
	47	22	30	0.40	0.15	ECES2WC470BB	ECEC2WC470BB	200
		25	25	0.40	0.15	ECES2WC470CB	ECEC2WC470CB	200
	56	22	35	0.47	0.15	ECES2WC560BB	ECEC2WC560BB	200
		25	30	0.47	0.15	ECES2WC560CB	ECEC2WC560CB	200

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.		Min.PackagingQty
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+105°C) (A)	tan δ (120Hz) (+20°C)	Terminal Length 6.3mm (Without P.V.C.plate)	(Standard Terminals) Terminal Length 4.0mm (Without P.V.C.plate)	(pcs)
450	68	22	40	0.53	0.15	ECES2WC680BB	ECEC2WC680BB	200
		25	30	0.53	0.15	ECES2WC680CB	ECEC2WC680CB	200
		30	25	0.53	0.15	ECES2WC680DB	ECEC2WC680DB	100
	82	22	45	0.56	0.15	ECES2WC820BB	ECEC2WC820BB	200
		25	35	0.56	0.15	ECES2WC820CB	ECEC2WC820CB	200
		30	30	0.56	0.15	ECES2WC820DB	ECEC2WC820DB	100
	100	22	50	0.61	0.15	ECES2WC101BB	ECEC2WC101BB	200
		25	40	0.61	0.15	ECES2WC101CB	ECEC2WC101CB	200
		30	30	0.61	0.15	ECES2WC101DB	ECEC2WC101DB	100
	120	25	45	0.67	0.15	ECES2WC121CB	ECEC2WC121CB	200
		30	35	0.67	0.15	ECES2WC121DB	ECEC2WC121DB	100
	150	25	50	0.75	0.15	ECES2WC151CB	ECEC2WC151CB	200
		30	40	0.75	0.15	ECES2WC151DB	ECEC2WC151DB	100
		35	30	0.75	0.15	ECES2WC151EB	ECEC2WC151EB	100
	180	30	45	0.82	0.15	ECES2WC181DB	ECEC2WC181DB	100
		35	35	0.82	0.15	ECES2WC181EB	ECEC2WC181EB	100
	220	30	50	0.92	0.15	ECES2WC221DB	ECEC2WC221DB	100
		35	40	0.92	0.15	ECES2WC221EB	ECEC2WC221EB	100
	270	35	45	1.00	0.15	ECES2WC271EB	ECEC2WC271EB	100
	330	35	50	1.10	0.15	ECES2WC331EB	ECEC2WC331EB	100

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