

Snap-in Type

Discontinued



Series: U Type : TS

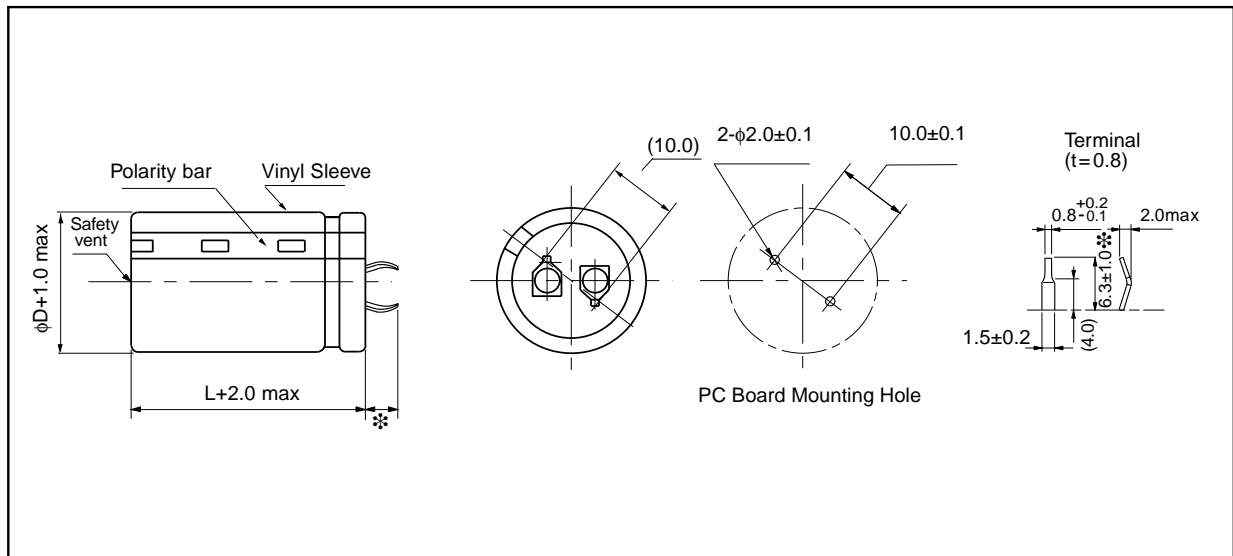
■ Features Endurance :85°C 2000 h

■ Specifications

Operating 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 33000 μ F		33 to 330 μ F							
Capacitance tol.	±20 % (120Hz/+20°C)									
DC leakage current	0.01CV(μA)(after 5min.) max. $C \times V \leq 100000 \mu F \times V (\leq 100V.DC)$ $3\sqrt[3]{CV}$ (μA)(after 5min.) max. $C \times V > 100000 \mu F \times V (\leq 100V.DC)$ 160 ~ 250V.DC		$3\sqrt[3]{CV}$ (μA)(after 5min) max. C : Capacitance (μF), V : W.V(V.DC)							
tan δ (120Hz / +20°C)	W.V.(V)	16	25	35	50, 63	80 ~ 450				
	tan δ	0.35	0.30	0.25	0.20	0.15	(max.)			
Frequency Correction Factor for ripple current	Frequency (Hz)	50		60	100	120	500	1k	10k to 50k	
	C.F.	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	
Load life	After 2000hrs. application of DC rated working voltage with full rated ripple current at +85°C, the capacitor shall meet the following limits.									
	Capacitance change	≤ ±20% of the initial measured value								
	tan δ	≤ 150% of the initial specified value								
	DC leakage current	≤ the initial specified value								
Shelf life	After storage for 1000hrs. at +85°C with no voltage application, the capacitor shall meet the limits for load life.									
Anti-solvent	Parts with rated voltage of 16 to 100V can withstand capacitor dipping (ultrasonic) and steam cleaning of printed circuit boards with Freon TE, Freon TES, Freon TP-35, or the equivalent if the cleanser temperature is 40°C or lower and the cleaning time is within 5 minutes.									

■ Dimentions

(mm)



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■ Standard Products

W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.	
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan.δ (120Hz) (+20°C)		
16	4700	22	25	1.60	0.35	ECES1CU472D	
		22	31.5	1.80	0.35	ECES1CU682E	
	6800	25	25	1.80	0.35	ECES1CU682J	
		22	40	2.40	0.35	ECES1CU103G	
		25	31.5	2.40	0.35	ECES1CU103K	
	10000	30	25	2.40	0.35	ECES1CU103Q	
		15000	22	50	3.20	0.35	ECES1CU153H
			25	40	3.20	0.35	ECES1CU153M
	22000	30	31.5	3.20	0.35	ECES1CU153R	
		22000	25	50	3.60	0.35	ECES1CU223N
			30	40	3.60	0.35	ECES1CU223T
	33000	35	31.5	3.60	0.35	ECES1CU223X	
		33000	30	50	4.40	0.35	ECES1CU333U
	35		40	4.40	0.35	ECES1CU333Y	
25	3300	22	25	1.60	0.30	ECES1EU332D	
		22	31.5	1.80	0.30	ECES1EU472E	
	4700	25	25	1.80	0.30	ECES1EU472J	
		6800	22	40	2.30	0.30	ECES1EU682G
			25	31.5	2.30	0.30	ECES1EU682K
	10000	30	25	2.30	0.30	ECES1EU682Q	
		10000	22	50	2.70	0.30	ECES1EU103H
			25	40	2.70	0.30	ECES1EU103M
	15000	30	31.5	2.70	0.30	ECES1EU103R	
		15000	25	50	3.40	0.30	ECES1EU153N
			30	40	3.40	0.30	ECES1EU153T
	22000	35	31.5	3.40	0.30	ECES1EU153X	
		22000	30	50	4.20	0.30	ECES1EU223U
	35		40	4.20	0.30	ECES1EU223Y	
	35	2200	22	25	1.40	0.25	ECES1VU222D
			3300	22	31.5	1.70	0.25
25		25		1.70	0.25	ECES1VU332J	
4700		22	40	2.00	0.25	ECES1VU472G	
		25	31.5	2.00	0.25	ECES1VU472K	
		30	25	2.00	0.25	ECES1VU472Q	
6800		22	50	2.40	0.25	ECES1VU682H	
		25	40	2.40	0.25	ECES1VU682M	
		30	31.5	2.40	0.25	ECES1VU682R	
10000		10000	25	50	3.00	0.25	ECES1VU103N
			30	40	3.00	0.25	ECES1VU103T
		35	31.5	3.00	0.25	ECES1VU103X	
15000		15000	30	50	3.70	0.25	ECES1VU153U
			35	40	3.70	0.25	ECES1VU153Y

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan.δ (120Hz) (+20°C)	
50	1500	22	25	1.20	0.20	ECES1HU152D
		22	31.5	1.40	0.20	ECES1HU222E
	3300	25	25	1.40	0.20	ECES1HU222J
		22	40	1.70	0.20	ECES1HU332G
		25	31.5	1.70	0.20	ECES1HU332K
	4700	30	25	1.70	0.20	ECES1HU332Q
		22	50	2.10	0.20	ECES1HU472H
		25	40	2.10	0.20	ECES1HU472M
	6800	30	31.5	2.10	0.20	ECES1HU472R
		25	50	2.60	0.20	ECES1HU682N
		30	40	2.60	0.20	ECES1HU682T
	10000	35	31.5	2.60	0.20	ECES1HU682X
30		50	3.40	0.20	ECES1HU103U	
		35	40	3.40	0.20	ECES1HU103Y
63	1000	22	25	1.20	0.20	ECES1JU102D
		22	31.5	1.30	0.20	ECES1JU152E
	2200	25	25	1.30	0.20	ECES1JU152J
		22	40	1.50	0.20	ECES1JU222G
		25	31.5	1.50	0.20	ECES1JU222K
	3300	30	25	1.50	0.20	ECES1JU222Q
		22	50	1.90	0.20	ECES1JU332H
		25	40	1.90	0.20	ECES1JU332M
	4700	30	31.5	1.90	0.20	ECES1JU332R
		25	50	2.30	0.20	ECES1JU472N
		30	40	2.30	0.20	ECES1JU472T
	6800	35	31.5	2.30	0.20	ECES1JU472X
30		50	3.00	0.20	ECES1JU682U	
35		40	3.00	0.20	ECES1JU682Y	
80	680	22	25	1.00	0.15	ECES1JU681D
		22	31.5	1.20	0.15	ECES1JU102E
	1000	25	25	1.20	0.15	ECES1JU102J
		22	40	1.40	0.15	ECES1JU152G
		25	31.5	1.40	0.15	ECES1JU152K
	1500	30	25	1.40	0.15	ECES1JU152Q
		22	50	1.70	0.15	ECES1JU222H
		25	40	1.70	0.15	ECES1JU222M
	2200	30	31.5	1.70	0.15	ECES1JU222R
		25	50	2.10	0.15	ECES1JU332N
		30	40	2.10	0.15	ECES1JU332T
	3300	35	31.5	2.10	0.15	ECES1JU332X
30		50	2.60	0.15	ECES1JU472U	
35		40	2.60	0.15	ECES1JU472Y	

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan.δ (120Hz) (+20°C)	
100	470	22	25	1.00	0.15	ECES2AU471D
	680	22	31.5	1.10	0.15	ECES2AU681E
		25	25	1.10	0.15	ECES2AU681J
	1000	22	40	1.20	0.15	ECES2AU102G
		25	31.5	1.20	0.15	ECES2AU102K
		30	25	1.20	0.15	ECES2AU102Q
	1500	22	50	1.50	0.15	ECES2AU152H
		25	40	1.50	0.15	ECES2AU152M
		30	31.5	1.50	0.15	ECES2AU152R
	2200	25	50	1.80	0.15	ECES2AU222N
		30	40	1.80	0.15	ECES2AU222T
		35	31.5	1.80	0.15	ECES2AU222X
3300	30	50	2.40	0.15	ECES2AU332U	
	35	40	2.40	0.15	ECES2AU332Y	
160	180	22	25	0.65	0.15	ECES2CU181D
	270	22	31.5	0.87	0.15	ECES2CU271E
		25	25	0.87	0.15	ECES2CU271J
	390	22	40	1.10	0.15	ECES2CU391G
		25	31.5	1.10	0.15	ECES2CU391K
		30	25	1.10	0.15	ECES2CU391Q
	560	22	50	1.30	0.15	ECES2CU561H
		25	40	1.30	0.15	ECES2CU561M
		30	31.5	1.30	0.15	ECES2CU561R
	820	25	50	1.50	0.15	ECES2CU821N
		30	40	1.50	0.15	ECES2CU821T
		35	31.5	1.50	0.15	ECES2CU821X
1200	30	50	1.80	0.15	ECES2CU122U	
	35	40	1.80	0.15	ECES2CU122Y	
200	150	22	25	0.65	0.15	ECES2DU151D
	220	22	31.5	0.87	0.15	ECES2DU221E
		25	25	0.87	0.15	ECES2DU221J
	330	22	35	1.10	0.15	ECES2DU331F
		25	31.5	1.10	0.15	ECES2DU331K
		30	25	1.10	0.15	ECES2DU331Q
	390	22	40	1.20	0.15	ECES2DU391G
		25	35	1.20	0.15	ECES2DU391L
	470	22	50	1.30	0.15	ECES2DU471H
		25	40	1.30	0.15	ECES2DU471M
		30	31.5	1.30	0.15	ECES2DU471R
		35	25	1.30	0.15	ECES2DU471W
	680	25	50	1.50	0.15	ECES2DU681N
		30	40	1.50	0.15	ECES2DU681T
		35	31.5	1.50	0.15	ECES2DU681X
820	25	50	1.65	0.15	ECES2DU821N	
	35	35	1.65	0.15	ECES2DU821V	

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		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan.δ (120Hz) (+20°C)	
200	1000	30	50	1.80	0.15	ECES2DU102U
		35	40	1.80	0.15	ECES2DU102Y
250	120	22	25	0.45	0.15	ECES2EU121D
		150	22	31.5	0.65	0.15
	25	25	0.65	0.15	ECES2EU151J	
	180	22	31.5	0.71	0.15	ECES2EU181E
		220	22	35	0.87	0.15
	220	25	31.5	0.87	0.15	ECES2EU221K
		30	25	0.87	0.15	ECES2EU221Q
		270	22	40	0.96	0.15
	25		35	0.96	0.15	ECES2EU271L
	330	30	25	0.96	0.15	ECES2EU271Q
		22	50	1.10	0.15	ECES2EU331H
		25	40	1.10	0.15	ECES2EU331M
	390	30	31.5	1.10	0.15	ECES2EU331R
		35	25	1.10	0.15	ECES2EU331W
		22	50	1.20	0.15	ECES2EU391H
	470	25	40	1.20	0.15	ECES2EU391M
		25	50	1.30	0.15	ECES2EU471N
	560	30	35	1.30	0.15	ECES2EU471S
		35	31.5	1.30	0.15	ECES2EU471X
		25	50	1.42	0.15	ECES2EU561N
680	30	40	1.42	0.15	ECES2EU561T	
	30	50	1.50	0.15	ECES2EU681U	
820	35	40	1.50	0.15	ECES2EU681Y	
	30	50	1.65	0.15	ECES2EU821U	
350	56	22	25	0.25	0.15	ECES2VU560D
		68	22	25	0.28	0.15
	82	22	31.5	0.35	0.15	ECES2VU820E
		25	25	0.35	0.15	ECES2VU820J
	100	22	31.5	0.39	0.15	ECES2VU101E
	120	22	35	0.47	0.15	ECES2VU121F
		25	31.5	0.47	0.15	ECES2VU121K
		30	25	0.47	0.15	ECES2VU121Q
	150	22	40	0.50	0.15	ECES2VU151G
		25	35	0.50	0.15	ECES2VU151L
		30	25	0.50	0.15	ECES2VU151Q
	180	25	40	0.60	0.15	ECES2VU181M
		30	31.5	0.60	0.15	ECES2VU181R
	220	22	50	0.66	0.15	ECES2VU221H
		25	50	0.66	0.15	ECES2VU221N
		30	35	0.66	0.15	ECES2VU221S
		35	25	0.66	0.15	ECES2VU221W
	270	25	50	0.75	0.15	ECES2VU271N
		30	40	0.75	0.15	ECES2VU271T

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W.V. (V)	Cap. (±20%) (μF)	Case size		Specification		Part No.		
		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan.δ (120Hz) (+20°C)			
200	1000	30	50	1.80	0.15	ECES2DU102U		
		35	40	1.80	0.15	ECES2DU102Y		
250	120	22	25	0.45	0.15	ECES2EU121D		
		25	25	0.65	0.15	ECES2EU151E		
	150	22	31.5	0.65	0.15	ECES2EU151E		
		25	25	0.65	0.15	ECES2EU151J		
		30	25	0.87	0.15	ECES2EU221Q		
	180	22	31.5	0.71	0.15	ECES2EU181E		
		220	22	35	0.87	0.15	ECES2EU221F	
			25	31.5	0.87	0.15	ECES2EU221K	
	270	22	40	0.96	0.15	ECES2EU271G		
			25	35	0.96	0.15	ECES2EU271L	
		30	25	0.96	0.15	ECES2EU271Q		
			35	25	1.10	0.15	ECES2EU331W	
	330	22	50	1.10	0.15	ECES2EU331H		
			25	40	1.10	0.15	ECES2EU331M	
		30	31.5	1.10	0.15	ECES2EU331R		
			35	25	1.10	0.15	ECES2EU331W	
	390	22	50	1.20	0.15	ECES2EU391H		
			25	40	1.20	0.15	ECES2EU391M	
	470	25	50	1.30	0.15	ECES2EU471N		
			30	35	1.30	0.15	ECES2EU471S	
35			31.5	1.30	0.15	ECES2EU471X		
560	25	50	1.42	0.15	ECES2EU561N			
		30	40	1.42	0.15	ECES2EU561T		
680	30	50	1.50	0.15	ECES2EU681U			
		35	40	1.50	0.15	ECES2EU681Y		
820	30	50	1.65	0.15	ECES2EU821U			
		35	40	1.50	0.15	ECES2EU681Y		
350	56	22	25	0.25	0.15	ECES2VU560D		
		25	25	0.35	0.15	ECES2VU820J		
	68	22	25	0.28	0.15	ECES2VU680D		
		25	25	0.35	0.15	ECES2VU820J		
	82	22	31.5	0.35	0.15	ECES2VU820E		
		25	25	0.35	0.15	ECES2VU820J		
	100	22	31.5	0.39	0.15	ECES2VU101E		
			120	35	0.47	0.15	ECES2VU121F	
				25	31.5	0.47	0.15	ECES2VU121K
	150	22	30	0.47	0.15	ECES2VU121Q		
			150	40	0.50	0.15	ECES2VU151G	
				25	35	0.50	0.15	ECES2VU151L
	180	22	30	0.50	0.15	ECES2VU151Q		
			180	25	40	0.60	0.15	ECES2VU181M
				30	31.5	0.60	0.15	ECES2VU181R
	220	22	50	0.66	0.15	ECES2VU221H		
			25	50	0.66	0.15	ECES2VU221N	
			30	35	0.66	0.15	ECES2VU221S	
			35	25	0.66	0.15	ECES2VU221W	
	270	25	50	0.75	0.15	ECES2VU271N		
30			40	0.75	0.15	ECES2VU271T		

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		Dia. (mm)	Length (mm)	Ripple current (120Hz) (+85°C) (A)	tan.δ (120Hz) (+20°C)	
450	150	30	35	0.70	0.15	ECES2WU151S
		35	25	0.70	0.15	ECES2WU151W
	180	25	50	0.77	0.15	ECES2WU181N
		30	40	0.77	0.15	ECES2WU181T
		35	31.5	0.77	0.15	ECES2WU181X
	220	30	50	0.92	0.15	ECES2WU221U
		35	35	0.92	0.15	ECES2WU221V
	270	30	50	1.02	0.15	ECES2WU271U
35		40	1.02	0.15	ECES2WU271Y	

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