

Aluminum Electrolytic Capacitors

Radial Lead Type SU-A (Bi-polar) series



Features

● Endurance : 85 °C 2000 h

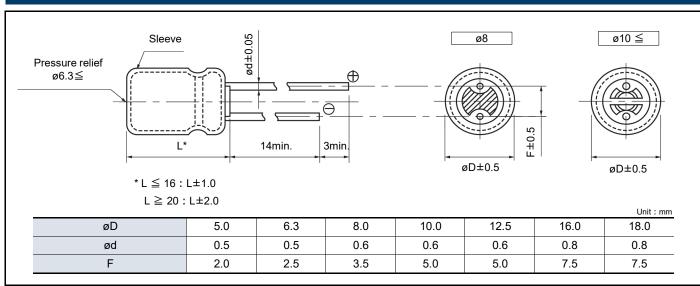
RoHS compliant

Specifications							
Category temp. range		–40 °C to +85 °C					
Rated voltage range		6.3 V to 50 V					
Capacitance range		2.2 μF to 6800 μF					
Capacitance tolerance		±20 % (120 Hz / +20℃)					
Leakage current		I ≤ 0.03 CV + 3 (μA) After 5 minutes					
Dissipation factor (tan δ)	Please see the attached characteristics list						
	After 2000 h application of DC working voltage (1000 h for each polarity) at +85 ℃ ± 2 ℃,						
	when the capacitors are restored to 20 °C, the capacitors shall meet the following limits.						
Endurance	Capacitance change Within ±20 % of the initial value						
	Dissipation factor (tan δ)	≤ 150 % of the initial limit					
	DC leakage current	urrent Within the initial limit					
	After storage for 1000 h at +85 ℃ ± 2 ℃ with no voltage applied and then being						
Shelf life	stabilized at +20 °C, capacitors shall meet the limits specified in endurance.						
	(With voltage treatment)						

Frequency correction factor for ripple current

Freq.(Hz)	50, 60	120	1 k	10 k to	
2.2 to 6800	0.70	1.00	1.30	1.70	

Dimensions



Characteristics list

Endurance : 85 ℃ 2000 h (1000 h for each polarity)

Rated voltage (V)	Capacitance	Case size (mm)		Specification		Lead length (mm)					Min. Packaging Q'ty (PCS)	
	(±20 %) (μF)	øD	L	Ripple current ^{*1} (mA rms)	tan δ ^{*2}	Lead dia. (ød)	Straight	ead spac Taping *B	Taping	Part No.	Strai- ght leads	Taping
	330	8.0	11.5	250	0.30	0.6	3.5	5.0	_	ECEA0JN331U()	200	1000
	470	10.0	12.5	310	0.30	0.6	5.0	5.0	_	ECEA0JN471X()	200	500
	1000	10.0	20.0	430	0.30	0.6	5.0	5.0		ECEA0JN102U()	200	500
6.3	2200	12.5	25.0	660	0.32	0.6	5.0	5.0	_	ECEA0JN222U()	200	500
	3300	16.0	25.0	760	0.34	0.8	7.5	7.5	_	ECEA0JN332U()	100	250
	4700	16.0	31.5	1170	0.36	0.8	7.5		_	ECEA0JN472U	100	_
	6800	18.0	35.5	1450	0.40	8.0	7.5		_	ECEA0JN682U	50	
	47	5.0	11.0	90	0.25	0.5	2.0	5.0	2.5	ECEA1AN470U()	200	2000
	100	6.3	11.2	130	0.25	0.5	2.5	5.0	2.5	ECEA1AN101X()	200	2000
	220	8.0	11.5	200	0.25	0.6	3.5	5.0		ECEA1AN221U()	200	1000
	330	10.0	16.0	280	0.25	0.6	5.0	5.0		ECEA1AN331U()	200	500
10	470	10.0	16.0	340	0.25	0.6	5.0	5.0		ECEA1AN471U()	200	500
	1000	12.5	20.0	470	0.25	0.6	5.0	5.0		ECEA1AN102X()	200	500
	2200	16.0	25.0	690	0.27	8.0	7.5	7.5		ECEA1AN222U()	100	250
	3300	16.0	31.5	1090	0.29	8.0	7.5			ECEA1AN332U	100	_
	4700	18.0	35.5	1200	0.31	8.0	7.5	_		ECEA1AN472U	50	
16	10	5.0	11.0	40	0.20	0.5	2.0	5.0	2.5	ECEA1CN100U()	200	2000
	22	5.0	11.0	60	0.20	0.5	2.0	5.0	2.5	ECEA1CN220U()	200	2000
	33	5.0	11.0	80	0.20	0.5	2.0	5.0	2.5	ECEA1CN330U()	200	2000
	47	6.3	11.2	100	0.20	0.5	2.5	5.0	2.5	ECEA1CN470U()	200	2000
	220	10.0	12.5	260	0.20	0.6	5.0	5.0		ECEA1CN221X()	200	500
	330	10.0	16.0	330	0.20	0.6	5.0	5.0		ECEA1CN331U()	200	500
	470	10.0	20.0	380	0.20	0.6	5.0	5.0		ECEA1CN471U()	200	500
	1000	12.5	25.0	560	0.20	0.6	5.0	5.0		ECEA1CN102U()	200	500
	2200	16.0	31.5	750	0.22	8.0	7.5		_	ECEA1CN222U	100	_
	3300	18.0	35.5	900	0.24	8.0	7.5	_		ECEA1CN332U	50	
25	10	5.0	11.0	45	0.15	0.5	2.0	5.0	2.5	ECEA1EN100U()	200	2000
	22	5.0	11.0	60	0.15	0.5	2.0	5.0	2.5	ECEA1EN220X()	200	2000
	33	6.3	11.2	90	0.15	0.5	2.5	5.0	2.5	ECEA1EN330U()	200	2000
	47	6.3	11.2	110	0.15	0.5	2.5	5.0	2.5	ECEA1EN470U()	200	2000
	100	8.0	11.5	180	0.15	0.6	3.5	5.0		ECEA1EN101U()	200	1000
	220	10.0	16.0	320	0.15	0.6	5.0	5.0		ECEA1EN221U()	200	500
	330	12.5	20.0	350	0.15	0.6	5.0	5.0		ECEA1EN331U()	200	500
	470	12.5	20.0	430	0.15	0.6	5.0	5.0		ECEA1EN471U()	200	500
	1000	16.0	25.0	680	0.15	0.8	7.5	7.5		ECEA1EN102U()	100	250
	2200	18.0	35.5	900	0.17	0.8	7.5	_	_	ECEA1EN222U	50	
35	10	5.0	11.0	43	0.15	0.5	2.0	5.0	2.5	ECEA1VN100U()	200	2000
	22	6.3	11.2	80	0.15	0.5	2.5	5.0	2.5	ECEA1VN220U()	200	2000
	33	8.0	11.5	100	0.15	0.6	3.5	5.0	_	ECEA1VN330U()	200	1000
	47	8.0	11.5	120	0.15	0.6	3.5	5.0	_	ECEA1VN470U()	200	1000
30	100	10.0	16.0	230	0.15	0.6	5.0	5.0	_	ECEA1VN101U()	200	500
	220	12.5	20.0	360	0.15	0.6	5.0	5.0	_	ECEA1VN221U()	200	500
	330	12.5	20.0	450	0.15	0.6	5.0	5.0	_	ECEA1VN331U()	200	500
	470	12.5	25.0	590	0.15	0.6	5.0	5.0	_	ECEA1VN471U()	200	500

^{*1:} Ripple current (120 Hz / +85 °C)

^{*2:} tan δ (120 Hz / +20 °C)

[•] When requesting taped product, please put the letter "B" or "i" between the "()". Lead wire pitch *B=5 mm, 7.5 mm, i=2.5 mm.

[•] Please refer to the page of "Taping dimensions".

Characteristics list

Endurance : 85 ℃ 2000 h (1000 h for each polarity)

Rated voltage (V)	Capacitance (±20 %) (μF)	Case size (mm)		Specification		Lead length (mm)					Min. Packaging Q'ty (PCS)	
		øD	L	Ripple current ^{*1} (mA rms)	tan δ ^{*2}	Lead dia. (ød)	Straight	ead space Taping *B	Taping	Part No.	Strai- ght leads	Taping
50	2.2	5.0	11.0	18	0.15	0.5	2.0	5.0	2.5	ECEA1HN2R2U()	200	2000
	3.3	5.0	11.0	25	0.15	0.5	2.0	5.0	2.5	ECEA1HN3R3U()	200	2000
	4.7	5.0	11.0	30	0.15	0.5	2.0	5.0	2.5	ECEA1HN4R7U()	200	2000
	10	6.3	11.2	50	0.15	0.5	2.5	5.0	2.5	ECEA1HN100U()	200	2000
	22	8.0	11.5	90	0.15	0.6	3.5	5.0	_	ECEA1HN220U()	200	1000
	33	8.0	11.5	110	0.15	0.6	3.5	5.0	_	ECEA1HN330U()	200	1000
	47	10.0	12.5	140	0.15	0.6	5.0	5.0		ECEA1HN470U()	200	500
	100	10.0	20.0	250	0.15	0.6	5.0	5.0		ECEA1HN101U()	200	500
	220	12.5	25.0	360	0.15	0.6	5.0	5.0		ECEA1HN221U()	200	500
	330	16.0	25.0	450	0.15	8.0	7.5	7.5	_	ECEA1HN331U()	100	250
	470	16.0	31.5	590	0.15	8.0	7.5	_	_	ECEA1HN471U	100	_

^{*1:} Ripple current (120 Hz / +85 ℃)

^{*2:} tan δ (120 Hz / +20 ℃)

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