



Aluminum Electrolytic Capacitors

Radial Lead Type

TA-A series

Features

- Endurance : 125 °C 2000 h
- Heat cycle: 1000 cycle -40 °C to +125 °C
- AEC-Q200 compliant
- RoHS compliant

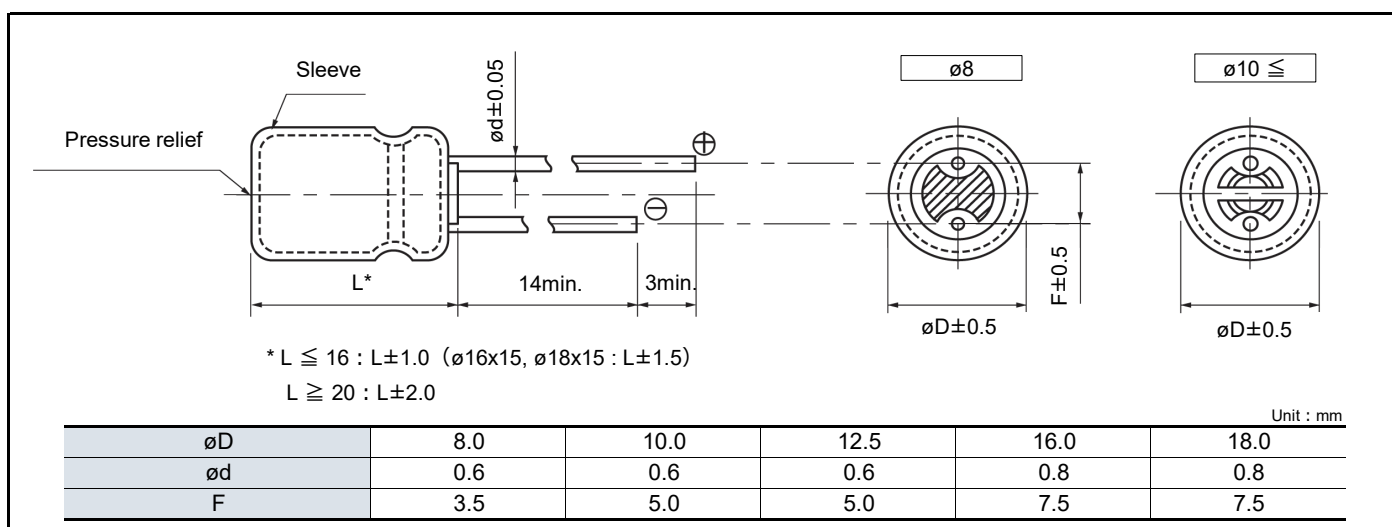
Specifications

Category temp. range	-40 °C to +125 °C							
Rated voltage range	10 V to 63 V							
Capacitance range	2.2 µF to 4700 µF							
Capacitance tolerance	±20 % (120 Hz / +20°C)							
Leakage current	I ≤ 0.01 CV or 3 (µA) After 2 minutes (Whichever is greater)							
Dissipation factor (tan δ)	Rated voltage (V)	10	16	25	35	50	63	(120 Hz /+20°C)
	Dissipation factor (tan δ)	0.20	0.16	0.14	0.12	0.10	0.09	
	For capacitance value ≥ 1000 µF , add 0.02 per every 1000 µF.							
Endurance	After following life test with DC voltage and +125 °C±2 °C ripple current value applied (The sum of DC and ripple peak voltage shall not exceed the rated working voltage) for 2000 h, when the capacitors are restored to 20 °C, the capacitors shall meet the limits specified bellow.							
	Capacitance change	Within ±30 % of the initial value						
	Dissipation factor (tan δ)	≤ 300 % of the initial limit						
	DC leakage current	Within the initial limit						
Shelf life	After storage for 1000 h at +125 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in endurance. (With voltage treatment)							

Frequency correction factor for ripple current

Freq. (Hz)	60	120	1 k	10 k	100 k
Cap. (µF)					
2.2 to 330	0.55	0.65	0.85	0.90	1.00
470 to 1000	0.70	0.75	0.90	0.95	1.00
2200 to 4700	0.75	0.80	0.90	0.95	1.00

Dimensions



Characteristics list

Endurance : 125 °C 2000 h

Rated voltage (V)	Capacitance (±20 %) (μF)	Case size (mm)		Specification		Lead length (mm)			Part No.	Min. Packaging Q'ty (PCS)	
		øD	L	Ripple current ^{*1} (mA rms)	Impe- dance ^{*2} (Ω)	Lead dia. (ød)	Lead space			Strai- ght leads	Taping
							Straight	Taping *B			
10	330	8.0	11.5	500	0.130	0.6	3.5	5.0	EEUTA1A331()	200	1000
	470	10.0	12.5	680	0.100	0.6	5.0	5.0	EEUTA1A471()	200	500
	1000	10.0	20.0	1100	0.057	0.6	5.0	5.0	EEUTA1A102()	200	500
		12.5	15.0	1085	0.070	0.6	5.0	5.0	EEUTA1A102S()	200	500
	2200	12.5	25.0	1750	0.033	0.6	5.0	5.0	EEUTA1A222L()	200	500
		16.0	20.0	1985	0.032	0.8	7.5	7.5	EEUTA1A222()	100	250
		18.0	15.0	1800	0.042	0.8	7.5	7.5	EEUTA1A222S()	100	250
	3300	16.0	25.0	2300	0.024	0.8	7.5	7.5	EEUTA1A332()	100	250
		18.0	20.0	2250	0.031	0.8	7.5	7.5	EEUTA1A332S()	100	250
	4700	16.0	31.5	2710	0.020	0.8	7.5	—	EEUTA1A472	100	—
18.0		25.0	2470	0.022	0.8	7.5	7.5	EEUTA1A472S()	100	250	
16	220	8.0	11.5	500	0.130	0.6	3.5	5.0	EEUTA1C221()	200	1000
	330	10.0	12.5	680	0.100	0.6	5.0	5.0	EEUTA1C331()	200	500
	470	10.0	16.0	945	0.075	0.6	5.0	5.0	EEUTA1C471()	200	500
	1000	12.5	20.0	1490	0.042	0.6	5.0	5.0	EEUTA1C102()	200	500
		16.0	15.0	1520	0.047	0.8	7.5	7.5	EEUTA1C102S()	100	250
	2200	16.0	25.0	2300	0.024	0.8	7.5	7.5	EEUTA1C222()	100	250
		18.0	20.0	2250	0.031	0.8	7.5	7.5	EEUTA1C222S()	100	250
	3300	16.0	31.5	2710	0.020	0.8	7.5	—	EEUTA1C332	100	—
		18.0	25.0	2470	0.022	0.8	7.5	7.5	EEUTA1C332S()	100	250
	4700	18.0	31.5	3270	0.018	0.8	7.5	—	EEUTA1C472	50	—
25	100	8.0	11.5	500	0.130	0.6	3.5	5.0	EEUTA1E101()	200	1000
	220	10.0	12.5	680	0.100	0.6	5.0	5.0	EEUTA1E221()	200	500
	330	10.0	16.0	945	0.075	0.6	5.0	5.0	EEUTA1E331()	200	500
	470	10.0	20.0	1100	0.057	0.6	5.0	5.0	EEUTA1E471()	200	500
		12.5	15.0	1085	0.070	0.6	5.0	5.0	EEUTA1E471S()	200	500
	1000	12.5	25.0	1750	0.033	0.6	5.0	5.0	EEUTA1E102L()	200	500
		16.0	20.0	1985	0.032	0.8	7.5	7.5	EEUTA1E102()	100	250
		18.0	15.0	1800	0.042	0.8	7.5	7.5	EEUTA1E102S()	100	250
	2200	16.0	31.5	2710	0.020	0.8	7.5	—	EEUTA1E222	100	—
		18.0	25.0	2470	0.022	0.8	7.5	7.5	EEUTA1E222S()	100	250
3300	18.0	35.5	3310	0.017	0.8	7.5	—	EEUTA1E332	50	—	
35	100	10.0	12.5	555	0.180	0.6	5.0	5.0	EEUTA1V101()	200	500
	220	10.0	16.0	765	0.130	0.6	5.0	5.0	EEUTA1V221()	200	500
	330	10.0	20.0	930	0.100	0.6	5.0	5.0	EEUTA1V331()	200	500
	470	12.5	20.0	1330	0.070	0.6	5.0	5.0	EEUTA1V471()	200	500
		16.0	15.0	1450	0.088	0.8	7.5	7.5	EEUTA1V471S()	100	250
	1000	16.0	25.0	2010	0.037	0.8	7.5	7.5	EEUTA1V102()	100	250
		18.0	20.0	2180	0.046	0.8	7.5	7.5	EEUTA1V102S()	100	250
	2200	18.0	35.5	2790	0.025	0.8	7.5	—	EEUTA1V222	50	—

*1: Ripple current (100 kHz / +125 °C)

*2: Impedance (100 kHz / +20 °C)

• When requesting taped product, please put the letter "B" between the "()".

Lead wire pitch *B=5 mm, 7.5 mm.

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

Characteristics list

Endurance : 125 °C 2000 h

Rated voltage (V)	Capacitance (±20 %) (μF)	Case size (mm)		Specification		Lead length (mm)			Part No.	Min. Packaging Q'ty (PCS)	
		øD	L	Ripple current ^{*1} (mA rms)	Impe- dance ^{*2} (Ω)	Lead dia. (ød)	Lead space			Strai- ght leads	Taping
							Straight	Taping *B			
50	10	8.0	11.5	180	0.950	0.6	3.5	5.0	EEUTA1H100()	200	1000
	22	8.0	11.5	250	0.650	0.6	3.5	5.0	EEUTA1H220()	200	1000
	33	8.0	11.5	300	0.450	0.6	3.5	5.0	EEUTA1H330()	200	1000
	47	8.0	11.5	440	0.350	0.6	3.5	5.0	EEUTA1H470S()	200	1000
	100	10.0	12.5	555	0.180	0.6	5.0	5.0	EEUTA1H101()	200	500
	220	10.0	20.0	930	0.100	0.6	5.0	5.0	EEUTA1H221()	200	500
	330	12.5	20.0	1330	0.070	0.6	5.0	5.0	EEUTA1H331()	200	500
		16.0	15.0	1450	0.088	0.8	7.5	7.5	EEUTA1H331S()	100	250
	470	12.5	25.0	1650	0.055	0.6	5.0	5.0	EEUTA1H471L()	200	500
		16.0	20.0	1650	0.053	0.8	7.5	7.5	EEUTA1H471()	100	250
		18.0	15.0	1710	0.075	0.8	7.5	7.5	EEUTA1H471S()	100	250
	1000	16.0	31.5	2430	0.031	0.8	7.5	—	EEUTA1H102	100	—
		18.0	25.0	2350	0.032	0.8	7.5	7.5	EEUTA1H102S()	100	250
63	22	8.0	11.5	310	0.470	0.6	3.5	5.0	EEUTA1J220()	200	1000
	33	10.0	12.5	410	0.360	0.6	5.0	5.0	EEUTA1J330()	200	500
	47	10.0	16.0	460	0.270	0.6	5.0	5.0	EEUTA1J470()	200	500
	100	10.0	20.0	680	0.205	0.6	5.0	5.0	EEUTA1J101()	200	500
	220	12.5	25.0	1325	0.100	0.6	5.0	5.0	EEUTA1J221L()	200	500
		16.0	20.0	1360	0.085	0.8	7.5	7.5	EEUTA1J221()	100	250
		18.0	15.0	1300	0.120	0.8	7.5	7.5	EEUTA1J221S()	100	250
	330	16.0	25.0	1660	0.070	0.8	7.5	7.5	EEUTA1J331()	100	250
		18.0	20.0	1760	0.077	0.8	7.5	7.5	EEUTA1J331S()	100	250
	470	16.0	31.5	2055	0.060	0.8	7.5	—	EEUTA1J471	100	—
		18.0	25.0	1990	0.060	0.8	7.5	7.5	EEUTA1J471S()	100	250

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