Radial Lead Type

Series: **TA** Type: **A**

■ Features

• Endurance: 125 °C 2000 h

● Heat cycle: 1000 cycle -40 °C to +125 °C

RoHS directive compliant



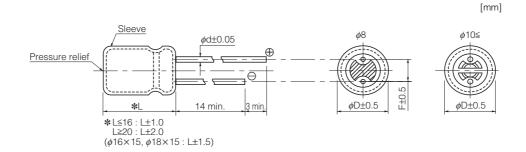
■ Specifications

Category Temp. Range -40 °C to + 125 °C										
Category Temp. Range		C								
Rated W.V. Range	10 V .DC to 63 V .DC									
Nominal Cap. Range	1 μF to 4700 μF									
Capacitance Tolerance	±20 % (120 Hz/+20 °C)									
DC Leakage Current	I ≤ 0.01 CV or 3 (μA) After 2 minutes (Whichever is greater)									
·	W.V.(V)	10	16	25	35	50	63	(10011= / . 20 %C)		
tan δ	tan δ	0.20	0.16	0.14	0.12	0.10	0.09	(120Hz / +20 °C)		
	For capacitance valu	e ≥ 10	00 μF	, add	0.02 p	er eve	ry 100	Ο μ F .		
	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 hours, when the capacitors are restored to 20 °C, the capacitors, shall meet the limits specified below.									
Endurance	Capacitance change ±30% of initial measured value									
	tan δ \leq 300 % of initial specified value									
	DC leakage current ≤ initial specified value									
Shelf Life		After storage for 1000 hours 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

W.V.	Cap. (μF)			Frequency (Hz)							
(V.DC)				60	120	1 k	10 k	100 k			
10 to 63	1	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 in mm (not to scale)



(mm)

Body Dia. øD	8	10	12.5	16	18
Lead Dia. ød	0.6	0.6	0.6	0.8	0.8
Lead space F	3.5	5.0	5.0	7.5	7.5

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■ Standard Products

		Case size		Specification		Le	ead Leng	ıth		Min. Packaging Q'ty	
Cap	Cap.				Ripple Imped-		Lead Space				
VV.V.	(±20°%)	Dia.	Length	Current (100 kHz) (+125 °C)	ance (100 kHz) (+20 °C)	Dia.	Straight	Taping *B	Part No.	Straight Leads	Taping
(V)	(µF)	(mm)	(mm)	(mA r.m.s.)	(Ω)	(mm)	(mm)	(mm)		(pcs)	(pcs)
	330	8	11.5	500	0.130	0.6	3.5	5.0	EEUTA1A331()	200	1000
	470	10	12.5	680	0.100	0.6	5.0	5.0	EEUTA1A471()	200	500
	1000	10	20	1100	0.057	0.6	5.0	5.0	EEUTA1A102()	200	500
	1000	12.5	15	1085	0.070	0.6	5.0	5.0	EEUTA1A102S()	200	500
		12.5	25	1750	0.033	0.6	5.0	5.0	EEUTA1A222L()	200	500
10	2200	16	20	1985	0.032	0.8	7.5	7.5	EEUTA1A222()	100	250
		18	15	1800	0.042	0.8	7.5	7.5	EEUTA1A222S()	100	250
	3300	16	25	2300	0.024	0.8	7.5	7.5	EEUTA1A332()	100	250
	0000	18	20	2250	0.031	0.8	7.5	7.5	EEUTA1A332S()	100	250
	4700	16	31.5	2710	0.020	0.8	7.5		EEUTA1A472	100	
	1700	18	25	2470	0.022	0.8	7.5	7.5	EEUTA1A472S()	100	250
	220	8	11.5	500	0.130	0.6	3.5	5.0	EEUTA1C221()	200	1000
	330	10	12.5	680	0.100	0.6	5.0	5.0	EEUTA1C331()	200	500
	470	10	16	945	0.075	0.6	5.0	5.0	EEUTA1C471()	200	500
	1000	12.5	20	1490	0.042	0.6	5.0	5.0	EEUTA1C102()	200	500
16	1000	16	15	1520	0.047	8.0	7.5	7.5	EEUTA1C102S()	100	250
	2200 3300	16	25	2300	0.024	8.0	7.5	7.5	EEUTA1C222()	100	250
		18	20	2250	0.031	8.0	7.5	7.5	EEUTA1C222S()	100	250
		16	31.5	2710	0.020	8.0	7.5		EEUTA1C332	100	
		18	25	2470	0.022	8.0	7.5	7.5	EEUTA1C332S()	100	250
	4700	18	31.5	3270	0.018	8.0	7.5		EEUTA1C472	50	
	100	8	11.5	500	0.130	0.6	3.5	5.0	EEUTA1E101()	200	1000
	220	10	12.5	680	0.100	0.6	5.0	5.0	EEUTA1E221()	200	500
	330	10	16	945	0.075	0.6	5.0	5.0	EEUTA1E331()	200	500
25	470	10	20	1100	0.057	0.6	5.0	5.0	EEUTA1E471()	200	500
	170	12.5	15	1085	0.070	0.6	5.0	5.0	EEUTA1E471S()	200	500
25		12.5	25	1750	0.033	0.6	5.0	5.0	EEUTA1E102L()	200	500
	1000	16	20	1985	0.032	0.8	7.5	7.5	EEUTA1E102()	100	250
		18	15	1800	0.042	0.8	7.5	7.5	EEUTA1E102S()	100	250
	2200	16	31.5	2710	0.020	0.8	7.5		EEUTA1E222	100	
		18	25	2470	0.022	0.8	7.5	7.5	EEUTA1E222S()	100	250
	3300	18	35.5	3310	0.017	0.8	7.5		EEUTA1E332	50	
	100	10	12.5	555	0.180	0.6	5.0	5.0	EEUTA1V101()	200	500
	220	10	16	765	0.130	0.6	5.0	5.0	EEUTA1V221()	200	500
	330	10	20	930	0.100	0.6	5.0	5.0	EEUTA1V331()	200	500
35	470	12.5	20	1330	0.070	0.6	5.0	5.0	EEUTA1V471()	200	500
50	.,,	16	15	1450	0.088	0.8	7.5	7.5	EEUTA1V471S()	100	250
	1000	16	25	2010	0.037	0.8	7.5	7.5	EEUTA1V102()	100	250
		18	20	2180	0.046	0.8	7.5	7.5	EEUTA1V102S()	100	250
	2200	18	35.5	2790	0.025	0.8	7.5		EEUTA1V222	50	

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When requesting taped product, please put the letter "B" between the "()". Lead wire pitch B=5 mm, 7.5 mm. The taping dimensions are explained on EE189 of our Catalog. Please use it as a reference guide.

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■ Standard Products

		Case	size	Specif	ication	L	ead Leng	th		Min. Pack	aging Q'ty
W.V.	Cap. (±20 %)	Dia.	Length	Ripple Current (100 kHz) (+125 °C)	Imped- ance (100 kHz) (+20 °C)	Lead Dia.	Lead Straight	Space Taping *B	Part No.	Straight Leads	Taping
(V)	(µF)	(mm)	(mm)	(mA r.m.s.)	(Ω)	(mm)	(mm)	(mm)		(pcs)	(pcs)
	1	8	11.5	35	2.00	0.6	3.5	5.0	EEUTA1H1R0()	200	1000
	2.2	8	11.5	50	1.80	0.6	3.5	5.0	EEUTA1H2R2()	200	1000
	3.3	8	11.5	60	1.50	0.6	3.5	5.0	EEUTA1H3R3()	200	1000
	4.7	8	11.5	85	1.15	0.6	3.5	5.0	EEUTA1H4R7()	200	1000
	10	8	11.5	180	0.950	0.6	3.5	5.0	EEUTA1H100()	200	1000
	22	8	11.5	250	0.650	0.6	3.5	5.0	EEUTA1H220()	200	1000
	33	8	11.5	300	0.450	0.6	3.5	5.0	EEUTA1H330()	200	1000
	47	8	11.5	440	0.350	0.6	3.5	5.0	EEUTA1H470S()	200	1000
50	100	10	12.5	555	0.180	0.6	5.0	5.0	EEUTA1H101()	200	500
	220	10	20	930	0.100	0.6	5.0	5.0	EEUTA1H221()	200	500
	330	12.5	20	1330	0.070	0.6	5.0	5.0	EEUTA1H331()	200	500
		16	15	1450	0.088	0.8	7.5	7.5	EEUTA1H331S()	100	250
		12.5	25	1650	0.055	0.6	5.0	5.0	EEUTA1H471L()	200	500
	470	16	20	1650	0.053	0.8	7.5	7.5	EEUTA1H471()	100	250
		18	15	1710	0.075	0.8	7.5	7.5	EEUTA1H471S()	100	250
	1000	16	31.5	2430	0.031	0.8	7.5		EEUTA1H102	100	
		18	25	2350	0.032	0.8	7.5	7.5	EEUTA1H102S()	100	250
	22	8	11.5	310	0.470	0.6	3.5	5.0	EEUTA1J220()	200	1000
	33	10	12.5	410	0.360	0.6	5.0	5.0	EEUTA1J330()	200	500
	47	10	16	460	0.270	0.6	5.0	5.0	EEUTA1J470()	200	500
	100	10	20	680	0.205	0.6	5.0	5.0	EEUTA1J101()	200	500
		12.5	25	1325	0.100	0.6	5.0	5.0	EEUTA1J221L()	200	500
63	220	16	20	1360	0.085	0.8	7.5	7.5	EEUTA1J221()	100	250
		18	15	1300	0.120	0.8	7.5	7.5	EEUTA1J221S()	100	250
	220	16	25	1660	0.070	0.8	7.5	7.5	EEUTA1J331()	100	250
	330	18	20	1760	0.077	0.8	7.5	7.5	EEUTA1J331S()	100	250
	470	16	31.5	2055	0.060	0.8	7.5		EEUTA1J471	100	
	4/0	18	25	1990	0.060	0.8	7.5	7.5	EEUTA1J471S()	100	250

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