

ALUMINUM ELECTROLYTIC CAPACITORS

深圳UPTELECOM供应

晟多邦, 专业PCB打样工厂, 24小时加急出货

nichicon

PT
series

Miniature Sized, High Ripple Current, Long Life

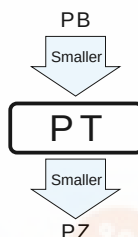


Smaller

Long Life

High Ripple Current

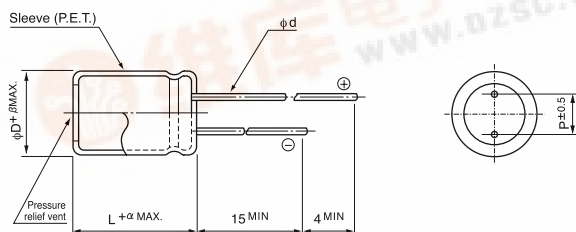
- High ripple current.
- Suited for ballast application.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

Item	Performance Characteristics									
Category Temperature Range	-25 ~ +105°C									
Rated Voltage Range	200 ~ 450V									
Rated Capacitance Range	15 ~ 820μF									
Capacitance Tolerance	± 20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.06CV+10 (μA)									
tan δ	Measurement frequency : 120Hz, Temperature : 20°C									
	Rated voltage (V)	200	220	250	400	420	450			
	tan δ (MAX.)	0.12	0.12	0.12	0.15	0.20	0.20			
Stability at Low Temperature	Measurement frequency : 120Hz									
	Rated voltage (V)			200	220	250	400	420	450	
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C		3	3	3	8	8	8	
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 5000 hours at 105°C the peak voltage shall not exceed the rated D.C. voltage, capacitors meet the characteristic requirements listed at right.						Capacitance change		Within ± 20% of initial value	
							tan δ		200% or less of initial specified value	
							Leakage current		Initial specified value or less	
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.									
Marking	Printed with white color letter on dark brown sleeve.									

Radial Lead Type

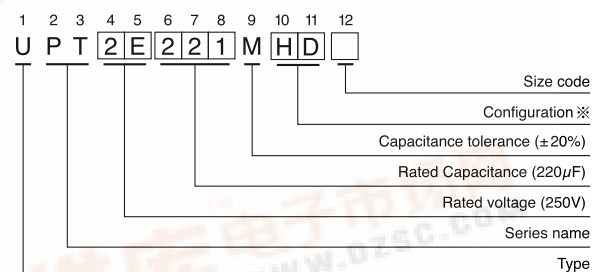


	(mm)
φD	10 12.5 16 18 20 22 25
P	5.0 5.0 7.5 7.5 10.0 10.0 12.5
φd	0.6 0.6* 0.8 0.8 1.0 1.0 1.0
β	0.5 0.5 0.5 0.5 0.5 1.0 1.0

* In case L > 25 for the φ12.5 dia. unit, lead dia. φd = 0.8mm.

α	(φD < 20): 1.5
	(φD ≥ 20): 2.0

Type numbering system (Example : 250V 220µF)



※ Configuration

φ D	Pb-free leadwire Pb-free PET sleeve
10	PD
12.5 ~ 18	HD
20 ~ 25	RD

• Please refer to page 21 about the end seal configuration.

Please refer to page 21, 22, 23 about the formed or taped product spec.
Please refer to page 3 for the minimum order quantity.



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■ Dimensions

Cap	Code	V		200		220		250		400		420		450	
				2D		2P		2E		2G		W6		2W	
15	150													10 × 31.5	0.15
18	180											10 × 31.5	0.17	12.5 × 25	0.18
22	220									10 × 31.5	0.21	12.5 × 25	0.20	12.5 × 31.5	0.22
27	270									12.5 × 25	0.24	12.5 × 31.5	0.24	12.5 × 31.5	0.25
33	330									12.5 × 31.5	0.29	12.5 × 31.5	0.27	12.5 × 35.5	0.28
39	390									12.5 × 31.5	0.32	12.5 × 35.5	0.31	12.5 × 40	0.32
47	470							10 × 31.5	0.27	12.5 × 35.5	0.37	12.5 × 40	0.36	16 × 31.5	0.38
56	560					10 × 31.5	0.29	12.5 × 25	0.31	12.5 × 40	0.42	16 × 31.5	0.43	16 × 35.5	0.44
68	680	10 × 31.5	0.35	12.5 × 25	0.34	12.5 × 31.5	0.36	12.5 × 31.5	0.36	16 × 31.5	0.46	16 × 35.5	0.51	16 × 40	0.49
												▲18 × 31.5	0.51	▲18 × 31.5	0.48
82	820	12.5 × 25	0.41	12.5 × 31.5	0.39	12.5 × 31.5	0.40	12.5 × 31.5	0.40	16 × 31.5	0.50	16 × 40	0.57	18 × 35.5	0.55
												▲18 × 31.5	0.57		
100	101	12.5 × 31.5	0.48	12.5 × 31.5	0.43	12.5 × 35.5	0.46	12.5 × 35.5	0.46	16 × 35.5	0.58	18 × 35.5	0.61	18 × 40	0.65
										▲18 × 31.5	0.58				
120	121	12.5 × 31.5	0.53	12.5 × 35.5	0.49	12.5 × 40	0.53	12.5 × 40	0.53	16 × 40	0.66	18 × 40	0.66	22 × 40	0.77
										▲18 × 35.5	0.67				
150	151	12.5 × 35.5	0.62	12.5 × 40	0.58	16 × 31.5	0.62	16 × 31.5	0.62	18 × 40	0.77	22 × 40	0.80	22 × 50	0.92
														▲25 × 40	0.92
180	181	12.5 × 40	0.70	16 × 31.5	0.67	16 × 35.5	0.72	16 × 35.5	0.72	22 × 40	0.85	22 × 50	0.95	25 × 50	1.10
						▲18 × 31.5	0.72					▲25 × 40	0.95		
220	221	16 × 31.5	0.76	16 × 35.5	0.77	16 × 40	0.83	16 × 40	0.83						
		▲18 × 31.5	0.81	▲18 × 31.5	0.77	▲18 × 35.5	0.83								
270	271	16 × 35.5	0.88	16 × 40	0.88	18 × 40	0.95	18 × 40	0.95	22 × 50	1.30	25 × 50	1.20		
		▲18 × 31.5	0.87	▲18 × 35.5	0.88										
330	331	18 × 35.5	1.01	18 × 40	1.01	22 × 40	1.05	22 × 40	1.05	25 × 50	1.40				
390	391	18 × 40	1.13	22 × 40	1.15										
470	471	22 × 40	1.20			22 × 50	1.45	22 × 50	1.45						
						▲25 × 40	1.45								
560	561			22 × 50	1.50	25 × 50	1.55	25 × 50	1.55						
				▲25 × 40	1.50										
680	681	22 × 50	1.50	25 × 50	1.60										
		▲25 × 40	1.50												
820	822	25 × 50	1.60											Case size φ D × L (mm)	※

※ : Rated Ripple (Arms) at 105°C 120Hz

▲ : In this case, [6] will be put at 12th digit of type numbering system.

• Frequency coefficient of rated ripple current

Frequency	50Hz	120Hz	300Hz	1kHz	10kHz~
Coefficient	0.80	1.00	1.25	1.40	1.60