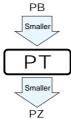
PT

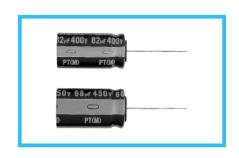
Miniature Sized, High Ripple Current, Long Life

series

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



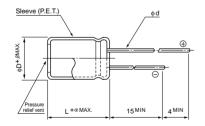




■Specifications

Item	Performance Characteristics										
Category Temperature Range	-25 to +105°C										
Rated Voltage Range	200 to 450V										
Rated Capacitance Range	15 to 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)										
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz, Temperature : 20°C Rated voltage (V) 200 220 250 400 420 450										
	tan δ (MAX.) 0.12 0.12 0.15 0.20 0.20										
	Measurement frequency : 120Hz										
Stability at Low Temperature	Rated voltage (V) 200 220 250 400 420 450										
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after D.C. bias plus rated ripple current is applied for 5000 hours at 105°C, the peak voltage shall not exceed the rated voltage. Capacitance change Within $\pm 20\%$ of the initial capacitance value $\tan \delta$ 200% or less than the initial specified value Leakage current Less than or equal to the initial specified value										
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the specified values for the endurance characteristics listed above.										
Marking	Printed with white color letter on dark brown sleeve.										

■ Radial Lead Type





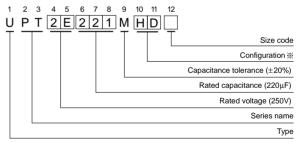
								(mm)
	φD	10	12.5	16	18	20	22	25
I	Р	5.0	5.0	7.5	7.5	10.0	10.0	12.5
I	φd	0.6	0.6◎	0.8	0.8	1.0	1.0	1.0
	β	0.5	0.5	0.5	0.5	0.5	1.0	1.0

In case L > 25 for the ϕ 12.5 dia. unit, lead dia. ϕ d = 0.8mm.



• Please refer to page 20 about the end seal configulation.

Type numbering system (Example : $250V\ 220\mu F$)



※ Configuration

φD	Pb-free leadwire Pb-free PET sleeve			
10	PD			
12.5 to 18	HD			
20 to 25	RD			

Please refer to page 20, 21, 22 about the formed or taped product spec. Please refer to page 4 for the minimum order quantity.



Dimensions

	V	200		220		250		400		420		450	
Сар	Code	2D		2P		2E		2G		W6		2W	
15	150		l I								l I	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	16 × 31.5	0.46	16 × 35.5	0.51	16 × 40	0.49
00	000	10 \ 31.5	0.33	12.5 \ 25	0.34	12.5 \ 31.5	0.36	10 × 31.3	0.40	▲ 18 × 31.5	0.51	▲ 18 × 31.5	0.48
82	820	12.5 × 25	0.41	12.5 × 31.5	0.30	12.5 × 21.5	0.40	16 × 21 5	0.50	16 × 40	0.57	- 18 × 35.5	0.55
02	020		0.41		0.39	12.5 × 31.5	0.40	16 × 31.5		▲ 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	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	16 × 40	0.66	- 18 × 40	0.66	22 × 40	0.77
120								▲ 18 × 35.5	0.67				
150	151	12.5 × 35.5	0.62	12.5 × 40	0.58	16 × 31.5 0.62	0.62	18 × 40	0.77	22 × 40	0.80	22 × 50	0.92
130				12.5 / 40	1 0.36		0.02		0.77			▲ 25 × 40	0.92
180	181	12.5 × 40	0.70	16 × 31.5	0.67	16 × 35.5	0.72	22 × 40	0.85	22 × 50	0.95	- 25 × 50	1.10
100				10 × 01.0	0.07	▲ 18 × 31.5	0.72	22 / 40		▲ 25 × 40			
220	221	16 × 31.5	0.76	16 × 35.5	0.77	16 × 40	0.83				 - 		
220	221	▲ 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	22 × 50	1.30	- 25 × 50	1.20		
270		▲ 18 × 31.5	0.87	▲ 18 × 35.5	0.88			▲ 25 × 40	1.30			i	
330	331	18 × 35.5	1.01	18 × 40	1.01	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						
-770		22 \ 40 1	1.20			▲ 25 × 40	1.45				 	I	
560	561			22 × 50	1.50	25 × 50 1.	1.55						
	551		i I	▲ 25 × 40	1.50	20 / 00	1.00						
680	681	22 × 50	1.50	25 × 50	1.60								
	551	▲ 25 × 40	1.50	257.00			 				 		
820	821	25 × 50	1.60									Case size φ D × L (mm)	*

 $[\]ensuremath{\ensuremath{\%}}$: Rated ripple current (Arms) at 105°C 120Hz

• Frequency coefficient of rated ripple current

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

^{▲:} In this case, will be put at 12th digit of type numbering system.