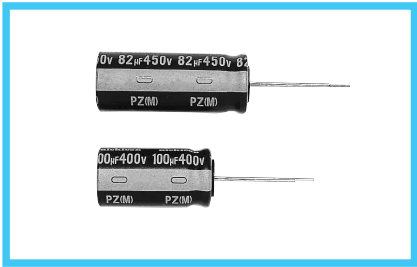
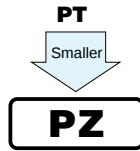


PZ High Voltage, Smaller-sized
series



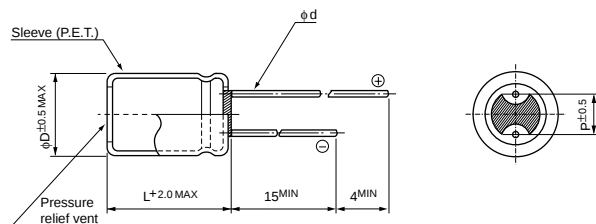
- High ripple current.
- Load life of 2000 hours at 105°C.
- Suited for ballast applications.
- Adapted to the RoHS directive (2002/95/EC).



Specifications

Item	Performance Characteristics								
Category Temperature Range	-25 ~ +105°C								
Rated Voltage Range	200 ~ 450V								
Rated Capacitance Range	18 ~ 470μF								
Capacitance Tolerance	±20% at 120Hz, 20°C								
Leakage Current	After 1 minutes' application of rated voltage, leakage current is not more than 0.04CV+100 (μA) , whichever is greater.								
tan δ	Measurement frequency : 120Hz, Temperature : 20°C								
	Rated voltage (V)	200	400	420	450				
	tan δ (MAX.)	0.12	0.15	0.20	0.20				
Stability at Low Temperature	Measurement frequency : 120Hz								
	Rated voltage (V)	200	400	420	450				
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	3	8	8	8			
Endurance	After an application of D.C. bias voltage plus the rated ripple current for 2000 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		
Shelf Life	After leaving capacitors under no load at 105°C for 1000 hours, they meet the specified value for endurance characteristics listed above.								
						Leakage current	Initial specified value or less		
Marking	Printed with white color letter on dark brown sleeve.								

Radial Lead Type



(mm)

φD	10	12.5	16	18
P	5.0	5.0	7.5	7.5
φd	0.6	0.8	0.8	0.8

Type numbering system (Example : 200V 220µF)

1	2	3	4	5	6	7	8	9	10	11	12
U	P	Z	2	D	2	2	1	M	H	D	
Size code											
Configuration ※											
Capacitance tolerance (±20%)											
Rated Capacitance (220µF)											
Rated voltage (200V)											
Series name											
Type											

※ Configuration

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

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

● Dimension table in next page.

■ Dimensions

φ D×L (mm)

Cap.(μF)	V	200		400		420		450	
		2D		2G		W6		2W	
18	180							10×31.5	180
22	220					10×31.5	200		
27	270			10×31.5	240				
33	330							12.5×31.5	280
39	390					12.5×31.5	310	12.5×35.5	320
47	470			12.5×31.5	370	12.5×35.5	360	12.5×40	380
56	560			12.5×35.5	420	12.5×40	430	16×31.5	440
68	680			12.5×40	480	16×31.5	510	16×35.5	490
82	820	10×31.5	400			16×35.5	570	16×40 ▲18×31.5	550 550
100	101			16×31.5	580	16×40 ▲18×31.5	610 610	18×35.5	650
120	121			16×35.5 ▲18×31.5	670 670	18×35.5	660	18×40	740
150	151	12.5×31.5	620	16×40 ▲18×35.5	770 770	18×40	710		
180	181	12.5×35.5	700	18×40	880				
220	221	12.5×40	800						
270	271	16×31.5	870						
330	331	16×35.5 ▲18×31.5	1010 1010						
390	391	16×40 ▲18×35.5	1130 1120						
470	471	18×40	1270					Case size	Rated Ripple

Rated Ripple (mA rms) at 105°C 120Hz

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

● Frequency coefficient of rated ripple current

V	60Hz	120Hz	500Hz	1kHz	10kHz~
200	0.80	1.00	1.20	1.30	1.40
400 ~ 450	0.80	1.00	1.25	1.40	1.50