



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# ALUMINUM ELECTROLYTIC CAPACITORS

nichicon

## UPS

Miniature Sized, Low Impedance,  
For Switching Power Supplies



- Wide temperature range type, miniature sized.
- Compliant to the RoHS directive (2011/65/EU).

Values marked with an  $\ast$  in the dimension table are scheduled to be discontinued and are not recommended for new designs.

UPJ  
Smaller

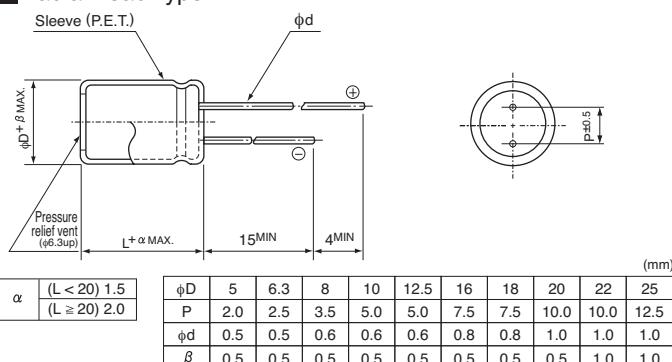
UPS



### ■ Specifications

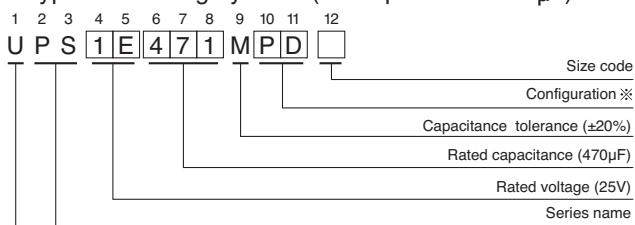
Item	Performance Characteristics																				
	Category Temperature Range		Rated voltage (V) 6.3 to 100 160 to 450																		
Category Temperature Range	-55 to +105°C (6.3 to 100V), -40 to +105°C (160 to 400V), -25 to +105°C (450V)																				
Rated Voltage Range	6.3 to 450V																				
Rated Capacitance Range	0.47 to 15000μF																				
Capacitance Tolerance	$\pm 20\%$ at 120Hz, 20°C																				
Leakage Current	Rated voltage (V)	6.3 to 100 160 to 450																			
	Leakage current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.03CV or 4 ( $\mu A$ ), whichever is greater.																			
Tangent of loss angle (tan $\delta$ )	For capacitance of more than 1000μF, add 0.02 for every increase of 1000μF																				
	Rated voltage (V)	6.3	10	16	25	35	50	63	100	160 to 250	315 · 350 400 · 450										
	tan $\delta$ (MAX.)	0.24	0.20	0.16	0.14	0.12	0.10	0.09	0.08	0.15	0.20										
Stability at Low Temperature	Measurement frequency : 120Hz at 20°C																				
	Rated voltage (V)	6.3 · 10	16 · 25	35 · 50	63 · 100	160 · 200	250	315 · 350	400	450											
	Impedance ratio (MAX.)	Z-25°C / Z+20°C	—	—	—	2	3	3	4	6	15										
		Z-40°C / Z+20°C	—	—	—	3	4	6	8	10	—										
		Z-55°C / Z+20°C	5	4	3	—	—	—	—	—	—										
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 3000 hours (2000 hours for $\phi D = 5$ to 10) 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



- Please refer to page 20 about the end seal configuration.

### Type numbering system (Example : 25V 470μF)



#### ※ Configuration

$\phi D$	Pb-free leadwire Pb-free PET sleeve
5	DD
6.3	ED
8 · 10	PD
12.5 to 18	HD
20 to 25	RD

### ● Frequency coefficient of rated ripple current

V	Cap.(μF)	Frequency	50Hz	120Hz	300Hz	1kHz	10kHz or more
6.3 to 100	0.47 to 47	—	0.17	0.40	0.65	1.00	
	100 to 220	0.30	0.50	0.65	0.80	1.00	
	330 to 680	0.57	0.71	0.82	0.90	1.00	
	1000 to 15000	0.75	0.87	0.96	0.98	1.00	
160 to 450	0.47 to 220	0.80	1.00	1.25	1.40	1.60	
	330 to 470	0.90	1.00	1.10	1.13	1.15	

Please refer to page 20, 21, 22 about the formed or taped product spec.

Please refer to page 4 for the minimum order quantity.

- Dimension table in next pages.

