

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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UUE

Chip Type, Vibration Resistance









- Chip type with load life of 2000 to 5000 hours at 125°C.
- Suited for automobile electronics where heavy duty services are indispensable.
- Compliant to the RoHS directive (2011/65/EU).

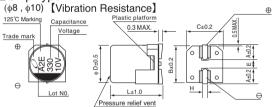




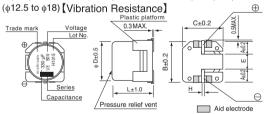
■Specifications

Item	Performance Characteristics									
Category Temperature Range	−55 to +125°C (φ 12.5 to 18) −40 to +125°C (φ 8 , φ 10)									
Rated Voltage Range	10 to 50V									
Rated Capacitance Range	33 to 4700μF									
Capacitance Tolerance	±20% at 120	±20% at 120Hz, 20°C								
Leakage Current	After 1 minut	After 1 minute's application of rated voltage, leakage current is not more than 0.03CV or 4 (µA), whichever is greater.								
	For capacitance of more than 1000µF, add 0.02 for every increase of 1000µF.									
Tangent of loss angle	Rated voltage (V)		10	16	25	35	50	120Hz		
(tan δ)	tan δ	φ8,φ10	0.26	0.20	0.16	0.14	0.14	20°C		
	(MAX)	φ 12.5 to φ 18	0.22	0.18	0.16	0.14	0.12			
	Rated voltage (V)		10	16	25	35	50	120Hz		
Stability at Low Temperature	Impedance ratio	$\varphi8,\varphi10$	10	8	6	4	4			
	Z-40°C / Z+20°C (MAX)	φ 12.5 to φ 18	8	6	4	3	3			
Endurance		ations listed at righ			Capacitance change Within ±30% of the initial capacitance value tan δ 300% or less than the initial specified value					
Endurance	capacitors are restored to 20°C after the rated voltage is applied for 5000 hours (2000 hours for ϕ D = 8 and 10) at 125°C. Leakage current Less than or equal to the initial specified value									
Shelf Life	After storing the capacitors under no load at 125°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.							JIS C 5101-4		
Marking	Black print on the case top.									

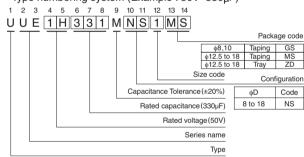
■Chip Type



% $\phi8$ to $\phi10$ The standard structure product is also available upon request, please refer to page141(UUB).



Type numbering system (Example : 50V $330\mu F$)



					(mm)	
₩.	8	10	12.5	16	18	
Α	2.9	3.2	4.8	5.4	6.4	
В	8.3	10.3	13.6	17.1	19.1 19.1 6.3	
С	8.3	10.3	13.6	17.1		
E	3.1	4.5	4.0	6.3		
L	L 10		13.5,16	16.5,21.5	16.5,21.5	
Н	1.1 to 1.5	1.1 to 1.5	1.0 to 1.4	1.0 to 1.4	1.0 to 1.4	

Dimensions

_											
V		10		16		25		35		50	
Cap.(μF) Code		1A		1C		1E		1V		1H	
33	330		1				1		l I	8×10	90
47	470		i i		1		1	8×10	100	10×10	130
100	101		į	8×10	140	8 × 10	140	10×10	150	12.5 × 13.5	500
220	221	8×10	140	10×10	190	10 × 10	190	12.5 × 13.5	550	16×16.5	850
330	331	10×10	190	12.5 × 13.5	750	12.5 × 13.5	750	16×16.5	1000	16×16.5	850
470	471	12.5 × 13.5	750	12.5 × 13.5	750	16×16.5	1000	16×16.5	1000	18×16.5	950
680	681	12.5 × 16	900	16×16.5	1000	18×16.5	1200	18 × 16.5	1200		l I
000	001		T			▲ 16×21.5	1200				
1000	102	12.5 × 16	900	18×16.5	1200	18×21.5	1550				
1000	102		!		!		!	▲ 18×21.5	1400		
2200	222	18 × 16.5	1200	18×16.5	1200		i		i		
2200		▲ 16×21.5	1200		Ţ <u>-</u>		T				
3300	332	18×16.5	1200				1		I I	Case size	Rated
4700	472	18 × 21.5	1550		!		!		!	φD×L (mm)	ripple

lpha In this case, $\boxed{6}$ will be put at 12th digit of type numbering system, \P^{\bullet}

• Frequency coefficient of rated ripple current

' '							
	φD	Cap.(µF)	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
	φ8,φ10	33 to 330	0.47	0.67	0.78	0.91	1.00
	10 F to 110	100 to 680	0.53	0.67	0.82	0.89	1.00
	φ 12.5 to φ 18	1000 to 4700	0.74	0.87	0.96	0.98	1.00

Rated ripple current (mArms) at 125°C 100kHz

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please refer to page 3 for the minimum order quantity.

CAT.8100F