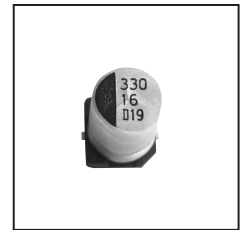


### Features

- Load Life : 105°C 2000~5000hours.
- For high density mounting.
- Low impedance at 100kHz.
- Corresponding product to RoHS

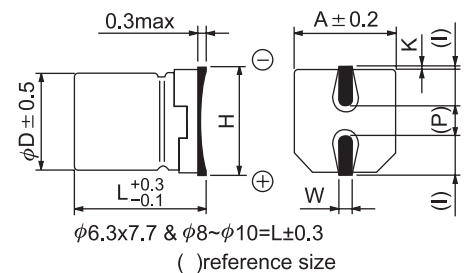


### ● SPECIFICATION

Item	Characteristic							
Operation Temperature Range	-55 ~ +105°C							
Rated Working Voltage	6.3 ~ 50VDC							
Capacitance Tolerance (120Hz 20°C)	±20%(M)							
Leakage Current (20°C)	$I \leq 0.01CV$ or 3 ( $\mu A$ )				I : Leakage Current ( $\mu A$ )			
	*Whichever is greater after 2 minutes				C : Rated Capacitance ( $\mu F$ )			
					V : Working Voltage (V)			
Surge Voltage (20°C)	W.V.	6.3	10	16	25	35	50	
	S.V.	8	13	20	32	44	63	
Dissipation Factor (tan $\delta$ ) (120Hz 20°C)	W.V.	6.3	10	16	25	35	50	
	tan $\delta$	0.28	0.24	0.20	0.16	0.13	0.12	
Low Temperature Stability	Impedance ratio at 120Hz							
	Rated Voltage (V)	6.3	10	16	25	35	50	
	-25°C / +20°C	3	3	2	2	2	2	
	-55°C / +20°C	7	7	5	3	3	3	
Load Life	After 5000 hours ( $\phi D \leq 6.3mm$ 2000 hours) application of W.V. and +105°C ripple current value, the capacitor shall meet the following limits. (DC + ripple peak voltage $\leq$ rate working voltage)							
	Capacitance Change	$\leq \pm 30\%$ of initial value						
	Dissipation Factor	$\leq 300\%$ of initial specified value						
	Leakage current	$\leq$ initial specified value						
Shelf Life	At +105°C, no voltage application after 1000 hours, the capacitor shall meet the limits for load life characteristics. (With voltage treatment)							
Resistance to Soldering Heat	Capacitor placed on a 250°C hot plate for 30 seconds with their electrode terminals facing downward will fulfill the following conditions after being cooled to room temperature.							
	Capacitance Change	$\leq \pm 10\%$ of initial value						
	Dissipation Factor	$\leq$ initial specified value						
	Leakage current	$\leq$ initial specified value						

### ● DIMENSIONS (mm)

D	L	A	H	I	W	P	K
4.0	5.4	4.3	5.5MAX	1.8	0.65±0.1	1.0	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
5.0	5.4	5.3	6.5MAX	2.2	0.65±0.1	1.5	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
6.3	5.4	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
6.3	7.7	6.6	7.8MAX	2.6	0.65±0.1	2.1	0.35 <sup>+0.15</sup> <sub>-0.20</sub>
8.0	10.2	8.3	10.0MAX	3.4	0.90±0.2	3.1	0.70±0.20
10.0	10.2	10.3	12.0MAX	3.5	0.90±0.2	4.6	0.70±0.20



● CASE SIZE & MAX RIPPLE CURRENT

Case size : D x L (mm)  
 Max impedance : Ω 20°C 100kHz  
 Max ripple current : mA(rms) 105°C 100kHz

μF	V(DC) Item	6.3			10			16			25			35			50		
		DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.	DxL	IMP.	R.C.
4.7																5x5.4	1.52	85	
10													5x5.4	0.76	150	6.3x5.4	0.88	165	
22							5x5.4	0.76	150	5x5.4	0.76	150	5x5.4	0.76	150	6.3x5.4	0.88	165	
33		5x5.4	0.76	150	5x5.4	0.76	150	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.68	185
47		5x5.4	0.76	150	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.68	185
100		6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.34	280	8x10.2	0.17	450	8x10.2	0.34	300
150		6.3x5.4	0.44	230	6.3x5.4	0.44	230	6.3x7.7	0.34	280	8x10.2	0.17	450	8x10.2	0.17	450	10x10.2	0.18	670
220		6.3x5.4	0.44	230	6.3x7.7	0.34	280	6.3x7.7	0.34	280	8x10.2	0.17	450	8x10.2	0.17	450	10x10.2	0.18	670
330		6.3x7.7	0.34	280	8x10.2	0.17	450	8x10.2	0.17	450	8x10.2	0.17	450	10x10.2	0.09	670			
470		8x10.2	0.17	450	8x10.2	0.17	450	8x10.2	0.17	450	10x10.2	0.09	670						
1000		8x10.2	0.17	450	10x10.2	0.09	670												
1500		10x10.2	0.09	670															

CHIP TYPE