

Chip Type, High Voltage. Long Life.



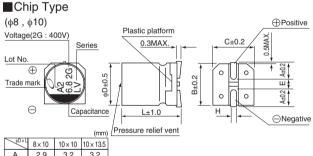
- Chip Type, high voltage and long life.
- Load life of 10000 hours at +105°C
- Applicable to automatic mounting machine using carrier tape.
- Compliant to the RoHS directive (2011/65/EU,(EU)2015/863).
- AEC-Q200 compliant. Please contact us for details.





■Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +105°C									
Rated Voltage Range	160 to 500V									
Rated Capacitance Range	1.8 to 33µF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	Rated voltage (V) 160 to 450 500 - 0.04CV+100(μA)max.(1 minute's at 20°C) 0.04CV+200(μA)max.(1 minute's at 20°C)									
	Measurement frequency : 120Hz at 20°C									
Tangent of loss angle (tan δ)	Rated voltage (V) 160 200 250 400 450 500 tan δ (MAX.) 0.20 0.20 0.25 0.25 0.30 0.30									
	Measurement frequency: 120Hz									
Stability at Law Tamparatura	Rated voltage (V) 160 200 250 400 450 500									
Stability at Low Temperature	Impedance ratio Z-40°C / Z+20°C 6 6 10 15 15									
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 10000 hours at 105°C. Capacitance change Within ±30% of the initial capacitance value tan δ 300% 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.									
Resistance to soldering heat	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250°C and then performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they shall meet the characteristic requirements listed at right when they are removed from the plate. Capacitance change Within $\pm 10\%$ of the initial capacitance value $\tan \delta$ Less than or equal to the initial specified value Leakage current Less than or equal to the initial specified value									
Marking	Black print on the case top.									



φD×L	8×10	10×10	10 × 13.5						
Α	2.9	3.2	3.2						
В	8.3	10.3	10.3						
С	8.3	10.3	10.3						
Е	3.1	4.5	4.5						
Ĺ	10	10	13.5						
Н	0.8 to 1.1	0.8 to 1.1	0.8 to 1.1						

Voltage						
V	160	200	250	400	450	500
Code	2C	2D	2E	2G	2W	2H

Dimensions

V		16	60	200		250		400		450		500	
Cap.(µF)	Code			2D		2E		2G		2W		2H	
1.8	1R8											8×10	25
3.3	3R3					!		!		8×10	25	10×10 !	40
3.9	3R9					i		8×10	35	i		i	
4.7	4R7											10 × 13.5	45
5.6	5R6									10×10	40		
6.8	6R8					i		10×10	50			i	
7.5	7R5									10 × 13.5	45		
8.2	8R2					8×10	35			į .			
10	100							10 × 13.5	55			i	
12	120			8×10	50								
15	150	8 × 10	50			10×10	50			i		i	
18	180			10 × 10	65	10 × 13.5	55						
22	220	10 × 10	65			!							
27	270			10 × 13.5	70	i		i		i		Case size	Rated
33	330	10 × 13.5	70									$\phi D \times L (mm)$	ripple

Rated ripple current (mArms) at 105°C 120Hz

- Frequency coefficient of rated ripple current
- Frequency
 50 Hz
 120 Hz
 300 Hz
 1 kHz
 10 kHz or more

 Coefficient
 0.80
 1.00
 1.25
 1.40
 1.60

- 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.8100 I