

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).

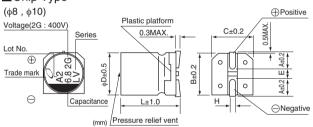




■ Specifications

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								
Leakage Current	- 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 0.25 0.25 0.30 0.30								
	Measurement frequency: 120Hz								
Stability at Low Temperature	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								
	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value								
Endurance	capacitors are restored to 20°C after the rated voltage is tan δ 300% or less than the intial specified value								
	applied for 10000 hours at 105°C. 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								
Marking	Black print on the case top.								

■Chip Type



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
E	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		60	20		25		40	0	45	0	500	
Cap.(µF)	Code	2	С	2	D	21	E	20	G .	2\	V	21-	ł
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							10×10	50				
7.5	7R5					!				10 × 13.5	45		
8.2	8R2					8×10	35					1	
10	100							10 × 13.5	55				
12	120			8×10	50	!		1				1	
15	150	8 × 10	50			10×10	50	i		i		i	
18	180			10×10	65	10 × 13.5	55						
22	220	10 × 10	65			!		!				-	
27	270			10 × 13.5	70	i				i		Case size	Rated
33	330	10 × 13.5	70									Case size	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.