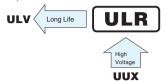


Chip Type, High Voltage.



- Chip Type, high Voltage.
- 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.

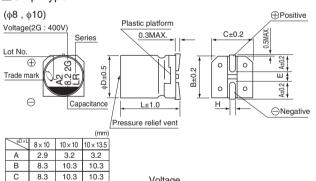




■Specifications

•								
Item	Performance Characteristics							
Category Temperature Range	-40 to +105°C							
Rated Voltage Range	160 to 500V							
Rated Capacitance Range	2.7 to 39µF							
Capacitance Tolerance	±20% at 120Hz, 20°C							
Leakage Current	After 1 minute's application of rated voltage at 20°C, leakage current is not more than 0.04CV +100(µA).							
Tangent of loss angle (tan δ)	Measurement frequency : 120Hz at 20°C 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 ZT / Z20 (MAX.) 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 3000 hours at 105°C. 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.							
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.							

■Chip Type



Voltage

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160 200 250 400 450 500

Code 2C 2D 2E 2G 2W

Type number	ering system	n (Example : 400V 8.2µF)
1 2 3 4 U L R 2	5 6 7 8 9 G 8 R 2 M	
		Taping code
		Configuration
		Capacitance tolerance (±20%)
		Rated capacitance (8.2µF)
		Rated voltage (400V)
		Series name
		Туре

Dimensions

3.1

10

4.5 4.5

10 13.5

H 0.8 to 1.1 0.8 to 1.1 0.8 to 1.1

V		160		200		250		400		450		500	
Cap.(µF)	Code	20	C	2D		2E		2G		2W		2H	
2.7	2R7						I I					8×10	20
3.9	3R9			-			!	!		8×10	25	10×10	35
4.7	4R7	i		i			i	8×10	35			i	
5.6	5R6											10 × 13.5	40
6.8	6R8	!					!	!		10×10	40	1	
8.2	8R2	i		i			i	10 × 10	50			i	
10	100					8 × 10	35			10 × 13.5	45		
12	120	!		8×10	50		!	10 × 13.5	55			1	
15	150	8×10	50	i		10×10	50			i		i	
22	220			10×10	65	10 × 13.5	55						
27	270	10×10	65	!			ļ.	!		!		1	
33	330			10 × 13.5	70		i	l i				Case size	Rated
39	390	10 × 13.5	70									$\phi D \times L (mm)$	ripple

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

Frequency coefficient of rated ripple current

Trequency decinicient of rated rippie 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.