ALUMINUM ELECTROLYTIC CAPACITORS









- Chip type with 3.0mmL height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2011/65/EU).

Products which are scheduled to be discontinued. Not recommended for new designs

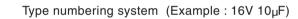


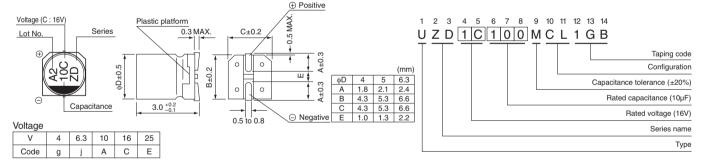


■Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 to +85°C									
Rated Voltage Range	4 to 25V									
Rated Capacitance Range	2.2 to 100μF									
Capacitance Tolerance	±20% at 120Hz, 20°C									
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.									
Tangent of loss angle (tan δ)	Rated voltage (V)		4	6.3	10	16	25	120Hz 2	20°C	
	tan δ (MAX.)		0.50	0.40	0.30	0.24	0.19			
Stability at Low Temperature	Rated voltage (V)		4	6.3	10	16	25	120Hz		
	Impedance ratio	Z-25°C / Z+20°C	7	4	3	2	2			
	ZT / Z20 (MAX.) Z-40°C / Z+20°		15	8	8	4	4			
Endurance	The specifications listed at right shall be met when the Capacitance change Within ±30% of the initial capacitance value								% of the initial capacitance value	
	capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 85°C. Leakage curre							300% or less than the initial specified value		
								Less than or equal to the initial specified value		
Shelf Life	After storing the capacitors under no load at 85°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. The capacitors shall meet the characteristic requirements listed at tan \(\delta\) Less than or equal to the initial specified value									
										right when they are removed from the plate and restored to 20°C.
	Marking	Black print on the case top.								

■Chip Type





■Dimensions

	V	V 4		6.3		10		16		25	
Cap. (μF)	Code	0G		0J		1A		1C		1E	
2.2	2R2				!				1	4	7
3.3	3R3									4	11
4.7	4R7				I I		1		1	4	16
5.6	5R6		-							5	18
6.8	6R8				i		i		İ	5	20
10	100				İ		1	5	23	6.3	27
22	220	4	20	5	28	5	33	6.3	37		
33	330	5	28	5	37	6.3	41		į		
47	470	5	33	6.3	45				-	Case size	Rated
100	101	6.3	56	6.3	70		i		i	φD (mm)	ripple

Rated ripple current (mArms) at 85°C 120Hz

• Frequency coefficient of rated ripple current

Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz or more
Coefficient	0.70	1.00	1.17	1.36	1.50

- 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.