ALUMINUM ELECTROLYTIC CAPACITORS

3.95mmL MAX. Chip Type, Wide Temperature Range series







- Chip type with 3.95mmLMAX height. Operating over wide temperature range of −40 to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).



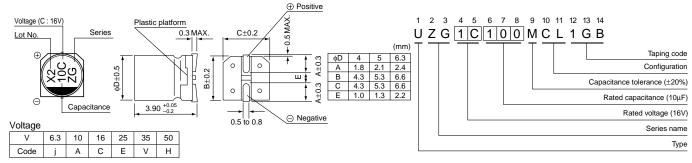


■Specifications

Item	Performance Characteristics										
Category Temperature Range	-40 to +105°C										
Rated Voltage Range	6.3 to 50V										
Rated Capacitance Range	0.1 to 100μF	0.1 to 100μF									
Capacitance Tolerance	±20% at 120Hz, 20°C After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA) , whichever is greater.										
Leakage Current									ever is greater.		
Tangent of loss angle (tan δ)	Rated voltage (V)		6.3	10	16	25	3.	5	50	120Hz 20°C	
	tan δ (MAX.)		0.38	0.32	0.20	0.10	6 0.1	4	0.14		
	Rated voltage (V)		6.3	10	16	25	3	5	50	120Hz	
Stability at Low Temperature	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	6	5	3	3	3		3		
remperature		Z-40°C / Z+20°C	10	10	6	6	4		4		
Endurance	capacitors are r	capacitors are restored to 20°C after the rated voltage is tan δ						more change Within ±30% of the initial capacitance value 300% or less than the initial specified value 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. The capacitors shall meet the characteristic requirements listed at right when they are removed from the plate ar restored to 20°C.					and			Less t	Within ±10% of the initial capacitance value Less than or equal to the initial specified value Less than or equal to the initial specified value	
Marking	Black print on the case top.										

■Chip Type

Type numbering system (Example : $16V 10\mu F$)



Dimensions

V		6.3		10		16		25		35		50	
Cap. (µF)	Code	0	J	1	A	1	IC	1	IE		1V	1	Н
0.1	0R1											4	0.9
0.22	R22										1	4	2.2
0.33	R33								1		1	4	2.8
0.47	R47											4	3.3
1	010										1	4	5.4
2.2	2R2						1		1		1	4	9.6
3.3	3R3						1		1		1	4	12
4.7	4R7							4	11	4	13	5	16
10	100				İ	4	16	5	20	5	22	6.3	26
22	220	4	19	5	24	5	26	6.3	33	6.3	36		
33	330	5	26	5	30	6.3	35	6.3	42		İ		i I
47	470	5	32	6.3	40	6.3	44		!				
100	101	6.3	52		ļ		İ		İ		İ	Case size	Rated 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	0.70	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.