ALUMINUM ELECTROLYTIC CAPACITORS

nichicon





• Chip type with 4.5mm 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).



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Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 to +85°C													
Rated Voltage Range	6.3 to 50V													
Rated Capacitance Range	0.1 to 47µF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.05 CV or 10 (μ A), whichever is greater.													
Tangent of loss angle (tan δ)	Measurement								ent frequency : 120Hz at 20°C					
	Rated voltage (V)		6.3	10		16	5	25	25 35		50			
	tan δ (MAX.)		0.30	0.24		0.2	0	0.18	0.1	6	0.16			
	Measurement frequency : 120Hz													
	Rated voltage (V)		(5.3	10		16	25		35	50			
Stability at Low Temperature	Impedance ratio	Z-25°C / Z-		4	3		2	2		2	2	1		
	ZT / Z20 (MAX.)	Z-40°C / Z-	+20°C	8	8		4	4		3	3	I		
	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 2000 hours at 85°C with the							titance change Within ±20% of the initial capacitance value						
Endurance									han the initial specified value					
	polarity inverted ev			with	tne		Leaka	ge currer	nt	Les	s than or e	qual to the initial specified value		
Shelf Life	After storing the ca clause 4.1 at 20°C											reatment based on JIS C 5101-4 above.		
	The capacitors are kept on a hot plate for 30 seconds, which is								Capacitance change Within ±10% of the initial capacitance value					
Resistance to soldering	maintained at 250°C. The capacitors shall meet the											an or equal to the initial specified value		
heat	characteristic requirements listed at right when they are removed from the plate and restored to 20°C.								e curre	ent		an or equal to the initial specified value		
Marking	Black print on the	case top.												

Chip Type

1 2 3 4 5 6 7 8 9 10 11 12 13 14 UZPICI00MCL1GB 0.5 MAX Plastic platform Capacitance C±0.2 0.3 MAX. Lot No Taping code Configuration (mm) A±0.3 φD 4 6.3 0 0 Capacitance tolerance (±20%) ļ ¢D±0.5 B±0.2 A 1.8 2.1 2.4 ш 🛊 A±0.3 В 4.35.36.64.35.36.6 Rated capacitance (10µF) 0 0 С Rated voltage (16V) F 10 13 2.2 4.5 +0.1 Series name 0.5 to 0.8 ※ Voltage mark for 6.3V is [[]6V]. Туре

Dimensions

	V	6	.3	1	0	1	6	2	5	3	85	5	0
Cap. (µF)	Code	0	J	1A		1C		1E		1V		1H	
0.1	0R1											4	1.0
0.22	R22		1		1							4	2.0
0.33	R33											4	2.8
0.47	R47				1							4	4.0
1	010											4	8.4
2.2	2R2		1		1					4	8.4	5	13
3.3	3R3							5	12	5	16	5	17
4.7	4R7		1		1	4	12	5	16	5	18	6.3	20
10	100			4	17	5	23	6.3	27	6.3	29		
22	220	5	28	6.3	33	6.3	37						
33	330	6.3	37	6.3	41	6.3	49						
47	470	6.3	45									Case size	Rated ripple
										Rated r	ipple current	t (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.

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

- Please select WP(p.120), UN(p.166) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100C