# **ALUMINUM ELECTROLYTIC CAPACITORS**



5.5mmL Chip Type High Temperature (260°C) Reflow





- Corresponding with 260°C peak reflow soldering Recomended reflow condition: 260°C peak 5 sec. 230°C over 60 sec. 2 times
- Chip type with 5.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Load life of 2000 hours at 85°C
- Compliant to the RoHS directive (2011/65/EU).



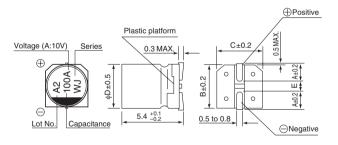




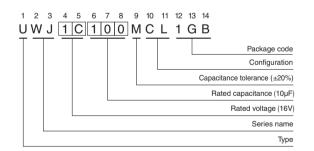
## ■Specifications

Item	Performance Characteristics												
Category Temperature Range	-40 to +85°C												
Rated Voltage Range	6.3 to 50V												
Rated Capacitance Range	1 to 150μF												
Capacitance Tolerance	±20% at 120Hz, 2	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' ap	oplication	of rated vo	Itage at	20°C, lea	akage	currer	nt is no	t more tha	n 0.01CV	or 3 (µA) ,whichever is greater.		
				_	easureme		·						
Tangent of loss angle (tan δ)	Rated voltage (V)	6.3	10	16		25	35		50				
	tan δ (MAX.)	0.26	0.20	0.16	0.	14	0.12	2	0.12				
	Measurement frequency : 120Hz												
Stability at Low Temperature		ltage (V)		6.3	10	1	6	25	35	50			
Stability at Low Temperature	Impedance ratio	Z-25°C /		4	3		2	2	2	2			
	ZT / Z20 (MAX.)	Z-40°C /	Z+20°C	8	8		4	4	3	3			
	The specifications listed at right shall be met Capacitance						ance ch	change Within ±20% of the initial capacitance value					
Endurance	when the capacitors are restored to 20°C after					tan δ			200% or less than the initial specified value				
	the rated voltage is applied for 2000 hours at 85°C.										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	maintained at 250°C. The capacitors shall meet the characteristic requirements listed at right when they are				itance cha	Less	in ±10% of the initial capacitance value at than or equal to the initial specified value at than or equal to the initial specified value						
Marking	Black print on the case top.												

# ■Chip Type



Type numbering system (Example : 16V 10µF)



Voltage						
V	6.3	10	16	25	35	50
Code	i	Α	С	Е	V	Н

			(mm)
φD	4	5	6.3
Α	1.8	2.1	2.4
В	4.3	5.3	6.6
С	4.3	5.3	6.6
E	1.0	1.3	2.2



#### **■**Dimensions

	V	6	.3	1	0	1	6	2	5	3	5	5	0
Cap. (µF)	Code	0	J	1A		1C		1E		1V		1H	
1	010		 		 		 		 			4	8.4
2.2	2R2		 		I I		I I		 			4	13
3.3	3R3		i I		I I		i I		i I			4	17
4.7	4R7		 		 		 	4	16	4	18	5	20
10	100		 		l I	4	23	5	27	5	29	6.3	33
22	220	4	28	5	33	5	37	6.3	42	6.3	45		
33	330	5	37	5	41	6.3	49	6.3	52				
47	470	5	45	6.3	52	6.3	58		1				
100	101	6.3	70	6.3	76	6.3	86		i i			Case size	Rated ripple
150	151	6.3	71		 		i i		1 1 1			φD (mm)	

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.