ALUMINUM ELECTROLYTIC CAPACITORS

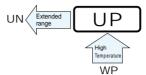








- Chip type, bi-polarized withstanding high temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).

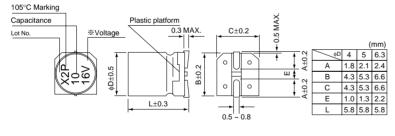




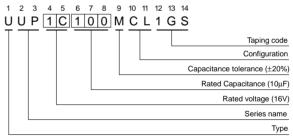
Specifications

Item	Performance Characteristics													
Category Temperature Range	−55 ~ +105°C													
Rated Voltage Range	6.3 ~ 50V													
Rated Capacitance Range	0.1 ~ 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 (µA), whichever is greater.													
	Measurement frequency : 120Hz, Temperature : 20°C													
tan δ	Rated voltage (V)	ed voltage (V) 6.3 10		0		16 25		25	35		50			
	tan δ (MAX.)	0.24 0.20		20		0.17	0.17		0.15		0.15			
	Measurement frequency : 120Hz													
Canbilla at Law Taranasatura	Rated voltage (V)			6.	3	10	16		25	35	50			
Stability at Low Temperature	Impedance ratio	Z-25°C / Z+		4		3	2		2	2	2			
	ZT / Z20 (MAX.)	Z-40°C / Z+	+20°C	8		6	4		4	3	3			
	After 1000 hours' application of rated Capacitance change Within ±20% of initial value									1				
Endurance	every 250 hours capacitors meet the					tan δ 20			00% or less of initial specified value					
						Leakage current Init			itial specified value or less					
Shelf Life	After storing the capacitors under no load at 105°C for 1000 hours, and after performing voltage treatment based on JIS C 5101-4 clause 4.1 at 20°C, they will meet the specified value for endurance characteristics listed above.													
Resistance to soldering heat	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored at room temperature, they meet the characteristic requirements listed at right.								Capacitance change Within ±10% of initial value					
									tan δ Leakage	current		Initial specified value or less Initial specified value or less		
Marking	Black print on the case top.													

■Chip Type



Type numbering system (Example: 16V 10µF)



 \times Voltage mark for 6.3V is $\lceil 6V \rfloor$

Dimensions

V		6.3		10		1	16	25		35		50	
Cap.(µF)	Code	C)J	1	A	1	С	1	E	1	IV	1	Н
0.1	0R1											4	1.0
0.22	R22		i				İ		1			4	2.0
0.33	R33		!		!		!					4	2.8
0.47	R47		i		i		i		1		į	4	4.0
1	010				!		!		!		!	4	8.4
2.2	2R2		i		i		İ		i	4	8.4	5	13
3.3	3R3		!		!		!	5	12	5	16	5	17
4.7	4R7				i	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		1		İ		Rated
47	470	6.3	45									Case size	ripple

Rated Ripple (mArms) at 105°C 120Hz

Frequency coefficient of rated ripple current

The second of th											
Frequency	50 Hz	120 Hz	300 Hz	1 kHz	10 kHz~						
Coefficient	0.70	1.00	1.17	1.36	1.50						

- Taping specifications are given in page 24.
- Recommended land size, soldering by reflow are given in page 25, 26.
- Please select UN(p.77) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.