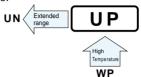








- \bullet Chip type, bi-polarized with standing high temperature range up to +105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).

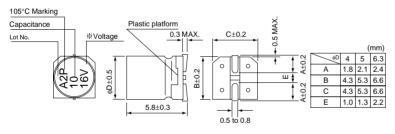




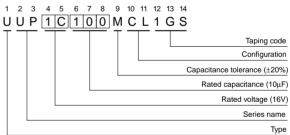
■ Specifications

Item	Performance Characteristics										
Category Temperature Range	−55 to +105°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 (μA), whichever is greater.										
	Measurement frequency: 120Hz at 20°C										
Tangent of loss angle (tan δ)	Rated voltage (V)	ed voltage (V) 6.3 10		16	25		35		50		
	tan δ (MAX.)	0.24	0.:	20	0.17	0	0.17 0.		15	0.15	
	Measurement frequency: 120Hz										
	Rated voltage (V)			6.3	10	16		25	35	50	
Stability at Low Temperature	Impedance ratio	Z-25° C / Z+	+20°C	4	3	2		2	2	2	
	ZT / Z20 (MAX.)	Z-40° C / Z-	+20°C	8	6	4		4	3	3	
Endurance	The specifications listed at right shall be met when the capacitors are restored to 20°C after the rated voltage is applied for 1000 hours at 105°C with the polarity every 250 hours. Capacitance change Within $\pm 20\%$ of the initial capacitance value $\tan \delta$ 200% or less than the initial specified value Less than or equal to the initial specified value							alue			
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 and restored to 20°C. Capacitance change Within $\pm 10\%$ of the initial capacitance transport of the initial specified version and restored to 20°C. Capacitance change Within $\pm 10\%$ of the initial capacitance transport of the initial specified version and restored to 20°C.						al 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	1	0	1	16	2	5	3	5	5	0
Cap.(µF)	Code	0	J	1A		1C		1E		1V		1H	
0.1	0R1										l I	4	1.0
0.22	R22						i				i	4	2.0
0.33	R33										l I	4	2.8
0.47	R47						İ				i	4	4.0
1	010						!				!	4	8.4
2.2	2R2						İ			4	8.4	5	13
3.3	3R3						!	5	12	5	16	5	17
4.7	4R7					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				i		
33	330	6.3	37	6.3	41	6.3	49		 		l !		Rated
47	470	6.3	45									Case size	ripple

• 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

Rated ripple current (mArms) at 105° C 120Hz

- Taping specifications are given in page 23.
- Recommended land size, soldering by reflow are given in page 18, 19.
- Please select UN(p.118) series if high CV products are required.
- Please refer to page 3 for the minimum order quantity.