4.5mmL Chip Type, Bi-Polarized series

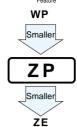








- Chip type with 4.5mm height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine fed with carrier tape.
- Compliant to the RoHS directive (2002/95/EC).



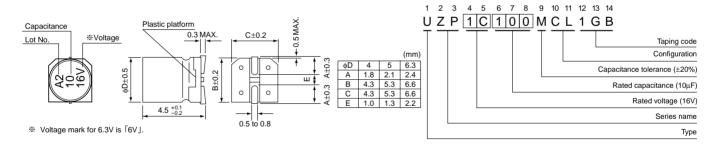


■Specifications

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 (µA), whichever is greater.												
	Measurement frequency : 120Hz at 20°C												
Tangent of loss angle (tan δ)	Rated voltage (V)		6.3	6.3 10		16	3	25	35		50		
	tan δ (MAX.)		0.30	0.	.24	0.2	20	0.18	0.16	6	0.16		
	Measurement frequency: 120Hz												
Chalailin at Laur Tananantun	Rated voltage (V)			6.3	10		16	25		35	50		
Stability at Low Temperature		Z-25° C / Z-		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 when the capacitors are restored to 20° C after the rated voltage is applied for 2000 hours at 85° C with the							itance ch	tance change Within ±20% of the initial capacitance value				
Endurance										300%	or less t	han the initial specified value	
	polarity inverted ev			C with	tne		Leaka	ge currer	nt	Less	anin ±20% of the initial capacitance value % or less than the initial specified value s than or equal to the initial specified value g voltage treatment based on JIS C 510	qual 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	The capacitors are kept on a hot plate for 30 seconds, which is maintained at 250° C. The capacitors shall meet the								Capacitance change Within ±10% of the initial capacitance value				
									tan δ			Less than 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.								ent	Less than or equal to the initial specified value		
Marking	Black print on the case top.												

■Chip Type

Type numbering system (Example : 16V 10µF)



■ Dimensions

	V	6.	.3	1	0	1	6	2	:5	3	5	5	0	
Cap. (µF) Code		0	0J		1A		1C		1E		1V		1H	
0.1	0R1											4	1.0	
0.22	R22										İ	4	2.0	
0.33	R33											4	2.8	
0.47	R47				i				i		i	4	4.0	
1	010						!		 		l I	4	8.4	
2.2	2R2								i	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		! !		i !			
47	470	6.3	45									Case size	Rated ripple	

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 select WP(p.76), UN(p.118) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.