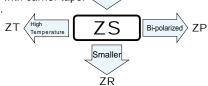
4.5mmL Chip Type series



- Chip type with 4.5mm height.
- Designed for surface mounting on high density PC board.
- Smaller • Applicable to automatic mounting machine fed with carrier tape."

• Compliant to the RoHS directive (2002/95/EC).



WX

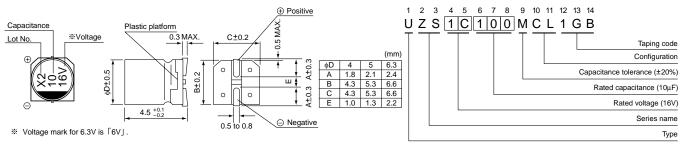


■Specifications

Item	Performance Characteristics													
Category Temperature Range	-40 to +85°C													
Rated Voltage Range	4 to 50V													
Rated Capacitance Range	0.1 to 220µF													
Capacitance Tolerance	±20% at 120Hz, 20°C													
Leakage Current	After 2 minutes' ap	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (µA) ,whichever is greater.												
	Mea							ent freque	ency : 1	20Hz,	Tempera	ture : 20°C		
Tangent of loss angle (tan δ)	Rated voltage (V)		4	6.3		10	_	16	25		35	50		
	tan δ (M.	tan δ (MAX.)		0.30		0.2	24	0.19	0.16	0.14		0.14]	
	Measurement frequency : 120Hz													
Chalifity at Law Tarrasantura	Rated voltage (V)			4	6.3	3	10	16	2	25	35	50		
Stability at Low Temperature	Impedance ratio	Z-25°C / Z-		7	4		3	2	_	2	2	2		
	ZT / Z20 (MAX.)	Z-40°C / Z-	+20°C	15	8		8	4		4	3	3]	
	The specifications listed at right shall be filet when							-				±20% of the initial capacitance value		
Endurance	the capacitors are restored to 20°C after the rated tan δ										% or less than the initial specified value			
	voltage is applied for 2000 hours at 85°C. Leakage current Less than 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.													
	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			
Resistance to soldering								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.								Leakage current Less than or equal to the initial			·		
Marking	Black print on the case top.													

■Chip Type

Type numbering system (Example: 16V 10µF)



Dimensions

	V		4	6	.3	1	0	1	16	2	25	3	5	5	0
Cap. (µF)	Code	0	G	0J		1A		1C		1E		1V		1H	
0.1	0R1													4	1.0
0.22	R22		i		i		i		İ					4	2.0
0.33	R33				 		! !		!					4	2.8
0.47	R47		i				i		İ					4	4.0
1	010													4	8.4
2.2	2R2								İ					4	13
3.3	3R3													4	17
4.7	4R7		i				i		İ	4	16	4	18	5	20
10	100						!	4	23	5	27	5	29	6.3	33
22	220		i	4	28	5	33	5	37	6.3	42	6.3	46		i
33	330	4	28	5	37	5	41	6.3	49	6.3	52				!
47	470	4	33	5	45	6.3	52	6.3	58						i
100	101	5	56	6.3	70		!		ļ		!		!		!
220	221	6.3	96				İ							Case size \$ D (mm)	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 UR(p.94), UG(p.100) series if high C/V products are regired.
- Please refer to page 3 for the minimum order quantity.

CAT.8100Y