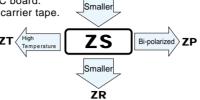
4.5mmL Chip Type







- Chip type with 4.5mm height.
- 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).



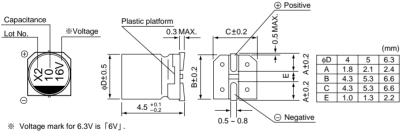
WX



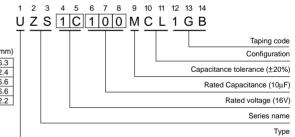
■Specifications

- Opcomoducióno												
Item	Performance Characteristics											
Category Temperature Range	-40 ~ + 85°C											
Rated Voltage Range	4 ~ 50V											
Rated Capacitance Range	0.1 ~ 220µF											
Capacitance Tolerance	±20% at 120Hz, 20°C											
Leakage Current	After 2 minutes' application of	rated volta	ge, le	eakage c	urrent is	not more	than 0.	01 CV or 3 (_I	ıA) ,whiche	ver is greater.		
	Measurement frequency: 120Hz, Temperature: 20°C											
tan δ	Rated voltage (V)	4	6	.3	10	16	25	35	50			
	tan δ (MAX.)	0.50	0.	30	0.24	0.19	0.16	0.14	0.14			
Stability at Low Temperature	Measurement frequency : 120Hz											
	Rated voltage (V)		4	6.3	10	16	2	5 35	50			
	Impedance ratio Z-25°C / Z-	120 0	7	4	3	2	:	2 2	2			
	ZT / Z20 (MAX.) Z-40°C / Z-	+20°C	15	8	8	4		4 3	3			
Endurance	After 2000 hours' application of rated voltage at 85°C,capacitors meet the characteristics					apacitance change Within ±20% of initial value						
								200% or les	or less of initial specified value			
	requirements listed at right.		Leak	age curre	nt	Initial specif	ied value or l	ess				
Shelf Life	After storing the capacitors unclause 4.1 at 20°C, they will m									t based on JIS C	5101-4	
Resistance to soldering	The capacitors shall be kept on the hot plate maintained at 250°C for 30 seconds. After removing from the hot plate and restored						Capacitance change Within ±10% of initial value					
										specified value or less		
heat	at room temperature, they meet the characteristic requiremen listed at right.					Leakage current Initial specified v						
Marking	Black print on the case top.											

■Chip Type



Type numbering system (Example : $16V 10\mu F$)



Dimensions

	V		4	6	.3	1	0	1	6	2	25	3	5	5	0
Cap. (µF)	Code	0	G	С)J	1	A	1	С	1	E	1	V	1	Н
0.1	0R1												!	4	1.0
0.22	R22		i		i		1		i		i		i	4	2.0
0.33	R33													4	2.8
0.47	R47		i		İ		İ		i		i		İ	4	4.0
1	010													4	8.4
2.2	2R2				i				i				i	4	13
3.3	3R3				!								!	4	17
4.7	4R7		i		i					4	16	4	18	5	20
10	100		!		ļ ļ		!	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		1		!		!		!		! !
220	221	6.3	96		İ						i		İ	Case size	Rated ripple

Rated Ripple (mArms) at 85°C 120Hz

• Frequency coefficient of rated ripple current

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 UR(p.70), UG(p.75) series if high C/V products are reqired.
- Please refer to page 3 for the minimum order quantity.