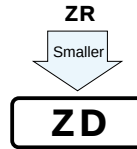


ZD 3.0mmL Chip Type
series



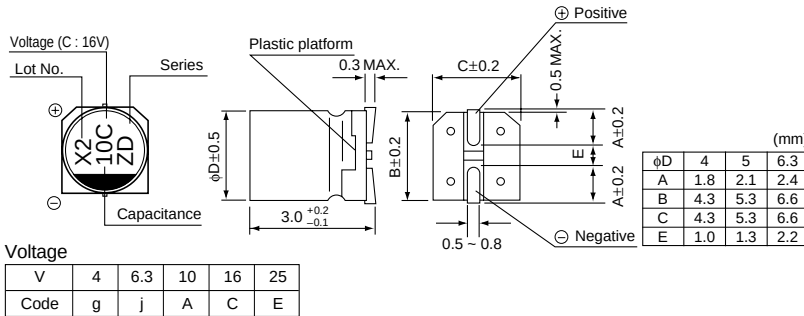
- Chip type with 3.0mmL height.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- Adapted to the RoHS directive (2002/95/EC).



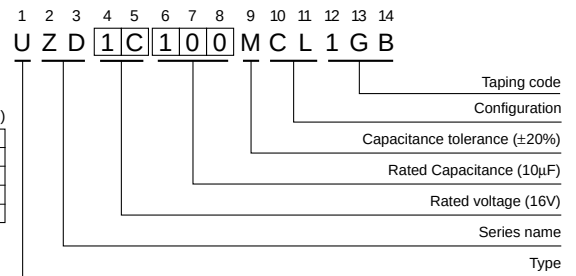
Specifications

Item	Performance Characteristics					
Category Temperature Range	-40 ~ +85°C					
Rated Voltage Range	4 ~ 25V					
Rated Capacitance Range	2.2 ~ 100μF					
Capacitance Tolerance	±20% at 120Hz, 20°C					
Leakage Current	After 2 minutes' application of rated voltage, leakage current is not more than 0.01 CV or 3 (μA), whichever is greater.					
tan δ	Rated voltage (V)	4	6.3	10	16	25
	tan δ (MAX.)	0.50	0.40	0.30	0.24	0.19
Stability at Low Temperature	Rated voltage (V)	4	6.3	10	16	25
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	7	4	3	2
		Z-40°C / Z+20°C	15	8	8	4
Endurance	After 1000 hours' application of rated voltage at 85°C, capacitors meet the characteristic requirements listed at right.					Capacitance change
						Within ±30% of initial value
						tan δ
Shelf Life	After storing the capacitors under no load at 85°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.					300% or less of initial specified value
						Leakage current
						Initial specified value or less
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
Marking	Black print on the case top.					Initial specified value or less
						Leakage current
						Initial specified value or less

Chip Type



Type numbering system (Example : 16V 10μF)



Dimensions

		V		4		6.3		10		16		25	
Cap. (μF)	Code	0G		0J		1A		1C		1E			
2.2	2R2									4		7	
3.3	3R3									4		11	
4.7	4R7									4		16	
5.6	5R6									5		18	
6.8	6R8									5		20	
10	100							5		23		6.3	
22	220	4	20	5	28	5	33	6.3	37				
33	330	5	28	5	37	6.3	41						
47	470	5	33	6.3	45								
100	101	6.3	56	6.3	70							Case size φ D (mm)	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 are given in page 25.
- Please contact us for the soldering by reflow.
- Please refer to page 3 for the minimum order quantity.