Z 3.95mmL MAX. Chip Type, Wide Temperature Range series







- Chip type with 3.95mmLMAX height. Operating over wide temperature range of −40 ~ +105°C.
- 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).



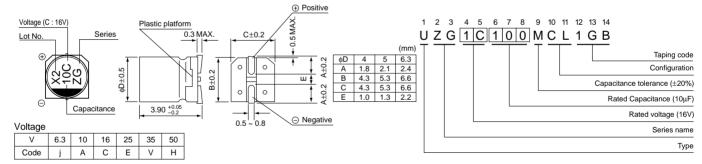


■Specifications

Item	Performance Characteristics									
Category Temperature Range	-40 ~ +105°C									
Rated Voltage Range	6.3 ~ 50V									
Rated Capacitance Range	0.1 ~ 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)		6.3	10	16	25	35	50	120Hz 20°C	
	tan δ (MAX.)		0.38	0.32	0.20	0.16	0.14	0.14		
Stability at Low Temperature	Rated voltage (V)		6.3	10	16	25	35	50	120Hz	
	Impedance ratio ZT / Z20 (MAX.)	Z-25°C / Z+20°C	6	5	3	3	3	3		
remperature		Z-40°C / Z+20°C	10	10	6	6	4	4		
	Capacitance change Within ±30% of initial value									
Endurance	After 1000 hours' application of rated voltage at 105°C, capacitors meet the characteristic requirements listed at right.									
	Capacitors mos	t the characteric	uo roquironn	orno notoa ai	i rigiti.	Leakage cur	rent	and 300% or less of initial specified ent Initial specified value or less	ed value or less	
Shelf Life	After storing the capacitors under no load at 105°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.									
Resistance to soldering heat	The capacitors	shall be kept on	the hot plate	Capacitance change		Within ±10% of initial value				
		removing from t		tan δ		Initial specified value or less				
	they meet the characteristic requirements listed at right.							e current	Initial specified value or less	
Marking	Black print on the case top.									

■Chip Type

Type numbering system (Example: 16V 10µF)



■Dimensions

	V	6.3		10		16		25		35		50	
Cap. (µF)	Code	C)J	1A		1C		1E		1V		1H	
0.1	0R1						!		-		!	4	0.9
0.22	R22						i		İ		İ	4	2.2
0.33	R33				!		!		}		!	4	2.8
0.47	R47											4	3.3
1	010						1		}		!	4	5.4
2.2	2R2						i		1			4	9.6
3.3	3R3						1					4	12
4.7	4R7							4	11	4	13	5	16
10	100				i	4	16	5	20	5	22	6.3	26
22	220	4	19	5	24	5	26	6.3	33	6.3	36		!
33	330	5	26	5	30	6.3	35	6.3	42		i i		İ
47	470	5	32	6.3	40	6.3	44		-				
100	101	6.3	52									Case size	Rated ripple

Rated Ripple (mArms) at 105°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.