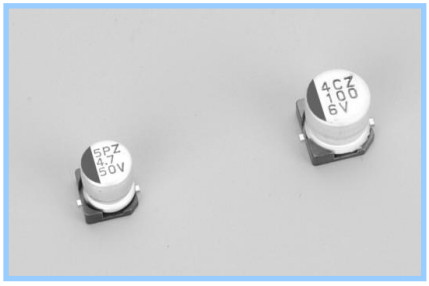
CZX SERIES

105℃, Low Z, Chip type

▣ Features

- 105℃, Low Z(ESR), SMD type
- Low ipmedance at high frequency
- Expand up to Φ10 case sizes
- Load life of 2,000 hours at 105℃

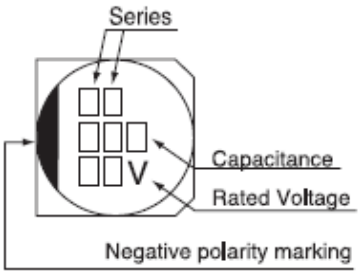


▣ Specifications

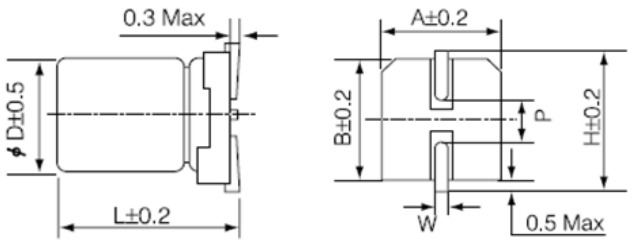
CZ → (Low Z) CZX

Item	Performance Characteristics						
Operating temperature range	-55℃ ~ +105℃						
Rated working voltage range	6.3V ~ 50V						
Nominal capacitance range	1.0 μF ~ 1,500 μF , ±20% (at 20℃, 120Hz)						
D.C Leakage current(at 20℃)	I ≤ 0.01CV or 3μA (2min), whichever is greater.						
	Where I = Leakage current(μA) C = Nominal capacitance(μF) V = Rated voltage (V)						
Tan δ (max., at 20℃, 120Hz)	W.V	6.3	10	16	25	35	50
	Tan δ	0.24	0.20	0.16	0.14	0.15	0.12
Characteristics at low temperature(max.) (impedance ratio at 120Hz)	W.V(V)	6.3	10	16	25	35	50
	Z-25℃/Z+20℃	3	2	2	2	2	2
	Z-40℃/Z+20℃	4	6	3	3	3	3
Load life	After applying rated working voltage for 2,000 hours at +105℃ and then listed being stabilized at +20℃, capacitors shall meet following limits. (4Φ~6.3Φ : 1,000Hours)						
	Capacitance change	Within ±30% of the initial measured value					
	Tan δ	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					
Shelf life	After storage for 1,000hours at + 105℃ with no voltage applied and then being stabilized at +20℃, capacitors shall meet following limits.						
	Capacitance change	Within ±30% of the initial measured value					
	Tan δ	≤ 200% of the initial specified value					
	Leakage current	≤ The initial specified value					
Resistance to soldering heat	After reflow soldering(Refer to reflow soldering temperature profile) and then being stabilized at +20℃, capacitors shall meet following limits.						

▣ Marking



▣ Dimensions in mm(not to scale)



Size code	Φ D	L	A	B	P	H	W
B	4	5.3	4.3	4.3	1	5	0.5~0.8
C	5	5.3	5.3	5.3	1.5	5.9	0.5~0.8
D	6.3	5.3	6.6	6.6	2	7.2	0.5~0.8
D_1	6.3	5.7	6.6	6.6	2	7.2	0.5~0.8
D_2	6.3	7.7	6.6	6.6	2	7.2	0.5~0.8
E	8	6.3	8.3	8.3	2.3	9	0.5~0.8
F	8	10	8.3	8.3	3.1	9	0.8~1.1
G	10	10	10.3	10.3	4.5	11	0.8~1.1

CZX SERIES

▣ Dimensions & Maximum permissible ripple current

μF \ V	6.3	10	16	25	35	50
1.0						B 30 5.0
2.2						B 30 5.0
3.3						B 30 5.0
4.7					B 80 1.8	C 85 1.5
10				B 83 1.8	C 150 0.76	D_1 165 1.9
22		B 83 1.8	C 155 0.76	C 155 0.76	C 150 0.76	D_1 165 1.9
33	B 85 1.8	C 150 0.80	D_1 235 0.36	D_1 235 0.36	D_1 235 0.37	D_2 185 0.68
47	C 150 0.80	D_1 240 0.36	D_1 235 0.36	D_1 235 0.36	D_1 235 0.37	D_2 185 0.68
68	D_1 235 0.38	D_1 240 0.36	D_1 240 0.36	D_1 240 0.36	D_1 280 0.34	F 300 0.34
100	D_1 240 0.38	D_1 240 0.36	D_1 240 0.36	D_2 280 0.34	F 550 0.17	F 300 0.34
150	D_1 240 0.38	D_1 240 0.36	D_2 280 0.34	F 450 0.17	F 550 0.17	G 670 0.18
220	D_1 240 0.38	D_2 280 0.34	D_2 280 0.34	F 550 0.17	F 580 0.17	G 670 0.18
330	D_2 280 0.34	F 580 0.17	F 550 0.17	F 550 0.17	G 750 0.09	
470	F 450 0.17	F 600 0.17	F 550 0.17	G 710 0.09		
680	F 450 0.17	G 720 0.09	G 680 0.09			
1,000	F 450 0.17	G 780 0.09				
1,500	G 670 0.09	Size code Maximum permissible ripple current[mA(rms) at 105℃, 100㎑] Impedance(Z) [Ω max. / 20℃ , 100㎑]				