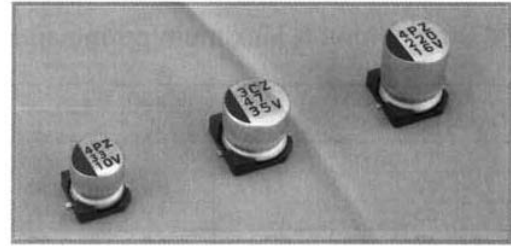


CZH SERIES

Chip type, For surface mounting

- SMD Low Impedance Type. Reflow Soldering is available.
- Life Dia. 4-6mm, 1000 hours and Dia. 8-10mm, 2000 hours at 105°C
- Available For High Density Mounting



Characteristics

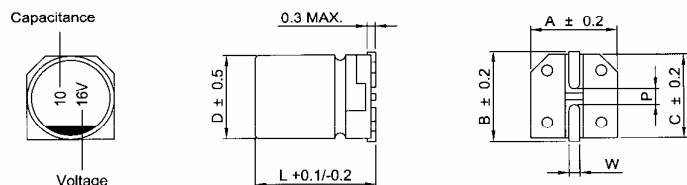
Voltage Range	6.3 to 50 VDC						
Capacitance Range	1.0 to 1000uF						
Temperature Range	-40 to +105°C						
Capacitance Tolerance	+20% -20% (at 20°C, 120Hz)						
Leakage Current	I ≤ 0.01CV or 3uA, whichever is greater 2 minutes after Rated Voltage applied						
Dissipation Factor (tan δ) Max	Rated Voltage (V)	6.3	10	16	25	35	50
	D.F.(tanδ)	0.22	0.19	0.16	0.14	0.12	0.12
	(at 20°C, 120Hz)						
Stability at Low Temperature	Impedance ration at 120Hz						
	Rated Voltage (V)	6.3	10	16	25	35	50
	Z-25°C/Z 20°C	3	3	2	2	2	2
	Z-40°C/Z 20°C	6	6	4	4	3	3
Load Life	Load Life @ 105°C 4~6mm, 1000 hours 8~10mm, 2000 hours	Capacitance change		Within ±25% of initial value			
		D.F. (tanδ)		200% or less of initial specified value			
		Leakage current		Less than initial specified value			
Shelf Life	After storage for 1000 hours at 105°C, with no voltage applied and being stabilized at +20°C, Capacitor shall meet the limit specified in load life.						

Case size & Maximum Ripple Current (mA rms 105°C 100KHz) & Imp. (Ω 20°C 100KHz)

Cap. ^{WV}	6.3			10			16			25			35			50			
	uF	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.	Size	R.C.	Imp.
1																	A	30	5
2.2																	A	30	5
3.3																	A	30	5
4.7														A	80	1.80	B	85	1.52
10										A	80	1.80	B	150	0.76	C	165	0.88	
22				A	80	1.80	B	150	0.76	B	150	0.76	B	150	0.76	C	165	0.88	
33	B	150	0.76	B	150	0.76	C	230	0.44	C	230	0.44	C	230	0.44	C8	185	0.68	
47	B	150	0.76	C	230	0.44	C	230	0.44	C	230	0.44	C	230	0.44	C8	185	0.68	
100	C	230	0.44	C	230	0.44	D	230	0.40	E	450	0.30	F	670	0.15	F	500	0.30	
220	C	230	0.44	C8	280	0.34	E	450	0.17	E	450	0.17	F	670	0.15	F	670	0.15	
330	C8	280	0.34	E	450	0.17	F	670	0.15	F	670	0.15	F	670	0.15				
470	E	450	0.17	F	670	0.15	F	670	0.15	F	670	0.15							
1000	E	450	0.17	F	670	0.15													

Diagram of dimensions

SIZE	Dφ	L	A	C	B	W	P
A	4	5.5	4.3	4.3	5.1	0.5~0.8	1.0
B	5	5.5	5.3	5.3	5.9	0.5~0.8	1.4
C	6.3	5.5	6.6	6.6	7.2	0.5~0.8	2.0
C8	6.3	7.7	6.6	6.6	7.2	0.5~0.8	2.0
D	8	6.5	8.3	8.3	9.0	0.5~0.8	2.2
E	8	10.5	8.3	8.3	9.0	0.8~1.1	3.1
F	10	10.5	10.3	10.3	11.0	0.8~1.1	4.5



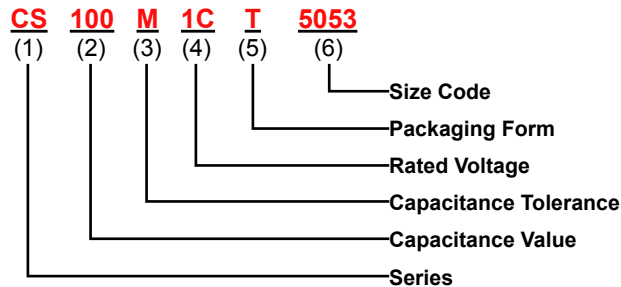
ORDERING INFORMATION (SMD)



Daewoo Components Corp.

Surface Mount Part Numbering System Example:

CS = SMD Series, **100** = 10µF, **M** =20% Tolerance, **1C** = W.V = 16 Volts, **TR** = Tape & Reel, **5053** = Case size (Dia x H) = 5.0 x 5.3mm



(1) Series

See quick guide on website.
 Surface mount (CS, CU, CZ, CZH, CN, CK)
 Example: CS = 2000hrs @ 85°C
 CU = 1000hrs @ 105°C

(5) Packaging Form Code

Surface Mount	T	Tape & Reel for Surface Mount
	XX	Tape & Reel SMD 13" Reels (330mm)

(2) Capacitance Value Code

Capacitance expressed in micro Farads (µF)
 First two digits are significant figures
 Third digit denotes the number of zeros
 Use R for decimal point for values less than 10µF

Examples:

CODE	Capacitance
R10	0.1 µF
R68	0.68 µF
1R0	1.0 µF
100	10 µF
680	68 µF
471	470 µF
102	1000 µF
103	10000 µF

(6) Size Code

Size Code	Dimensions (mm)	
	Diameter	Length
3054	3.0	5.4
4053	4.0	5.3
4055	4.0	5.5
5053	5.0	5.3
5055	5.0	5.5
6353	6.3	5.3
6355	6.3	5.5
6357	6.3	5.7
6377	6.3	7.7
8069	8.0	6.3
8010	8.0	10.0
1010	10.0	10.0
1213	12.5	13.5
1216	12.5	16.0

(3) Capacitance Tolerance Code

CODE	Cap. Tol.
M	±20%

(4) Rated Voltage Code

CODE	Voltage	CODE	Voltage
	4.0V	2A	100V
0J	6.3V	2C	160V
1A	10V	2D	200V
1C	16V	2E	250V
1E	25V	2V	350V
1V	35V	2G	400V
1H	50V	2W	450V