CD series

- Chip type, Low impedance temperature range up to -55~+105°C.
- Designed for surface mounting on high density PC board.
- Applicable to automatic mounting machine using carrier tape.
- RoHS Compliance.
- -55~+105°C低阻抗晶片式電容器。
- 專為高密度PC板表面貼裝而設計。
- 適合自動貼裝機使用。

SPECIFICATIONS

Items 項目	Characteristics 特 性								
Capacitance Tolerance 靜電容量誤差	±20% (120Hz, 20°C)								
Operating Temperature Range 適用溫度範圍	-55 ~ +105°C				-40 ~ +105°C				
Rated Voltage Range 工作電壓範圍	6.3 ~ 63V				80 ~ 100V				
Rated Capacitance Range 適用容量範圍	1 ~ 1500 μF								
Leakage Current 洩漏電流	I≦0.01CV or 3μA, which is greater. (After 2 minutes application of rated voltage)								
Dissipation Factor 散逸因素 (tan δ)	Measurement Frequency: 120Hz. Temperature: 20°C								
	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100
	tan δ (Max)	0.30	0.26	0.22	0.16	0.13	0.10	0.08	0.08	0.07
Low Temperature Stability 低溫特性 Impedance Ratio (Max) 阻抗比率 (最大值)	Measurement Frequency: 120Hz.								
	Rated Voltage (V)	6.3	10	16	25	35	50	63	80	100
	Z (-25°C) / Z (20°C)	4	3	2	2	2	2	2	2	2
	Z (-40°C) / Z (20°C)	8	5	4	3	3	3	3	3	3
Load Life 負荷壽命	3000hours, with application of working voltage at 105°C (φD=4, 6.3mm, 2000 hours; φD=8, 10mm, 3000 hours)								
	Capacitance Change	Within ±30% of Initial Value							
	tan δ	300% or less of Initial Specified Value							
	Leakage Current	Initial Specified Value or less							
Shelf Life 放置壽命	1,000hours, no voltage applied, at 105°C. After Test : UR to be applied for 30 minutes, 24 to 48hours before measurement. They meet the specified value for endurance characteristics listed above.								
Resistance to Soldering Heat 焊錫耐熱性	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 characteristics requirements listed at right.	Capacitance Change	Within ±10% of Initial Value						
		tan δ	Initial Specified Value						
		Leakage Current	Initial Specified Value or less						
Marking 標識	Black print on the case top								

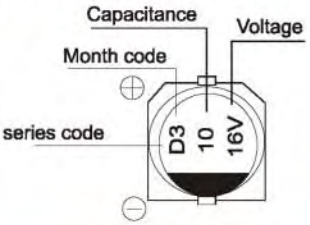
Frequency Coefficient of Permissible Ripple Current

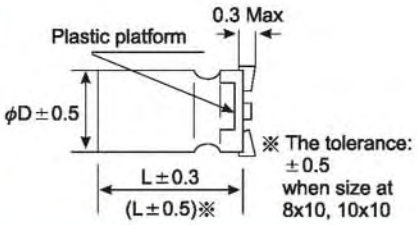
Frequency (Hz)	50	60	120	1K	≧10K
Coefficient	0.64	0.64	0.80	0.93	1.00

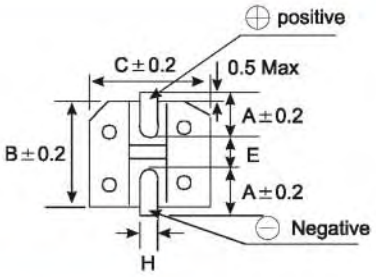
CD series

DIMENSIONS (mm)

■ Chip Type







φDxL	4x5.4	5x5.4	6.3x5.4	6.3x7.7	8x6.2	8x10	10x10
A	1.8	2.1	2.4	2.4	3.3	2.9	3.2
B	4.3	5.3	6.6	6.6	8.3	8.3	10.3
C	4.3	5.3	6.6	6.6	8.3	8.3	10.3
E	1.0	1.3	2.2	2.2	2.3	3.1	4.5
L	5.4	5.4	5.4	7.7	6.2	10	10
H	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.5~0.8	0.8~1.1	0.8~1.1

(mm)

STANDARD RATINGS

DxL(mm); R.C. (mA rms) at 105°C, 100KHz, IMP: (Ω max) at 20°C 100KHz.

Cap (μF) \ WV (V)	6.3 (0J)			10 (1A)			16 (1C)			25 (1E)			35 (1V)		
Item	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
4.7													4x5.4	80	1.35
10							4x5.4	80	1.35	4x5.4	80	1.35	5x5.4	150	0.80
22	4x5.4	80	1.35	4x5.4	80	1.35	5x5.4	150	0.80	5x5.4	150	0.80	6.3x5.4	230	0.44
33	4x5.4	80	1.35	5x5.4	150	0.80	5x5.4	150	0.80	6.3x5.4	230	0.44	6.3x5.4	230	0.44
47	5x5.4	150	0.80	5x5.4	150	0.80	5x5.4	150	0.80	6.3x5.4	230	0.44	6.3x5.4	230	0.44
100	6.3x5.4	230	0.44	6.3x5.4	230	0.44	6.3x5.4	230	0.44	6.3x7.7	280	0.36	8x10	450	0.17
										8x6.2	300	0.32			
150	6.3x5.4	230	0.44	6.3x5.4	230	0.44	6.3x7.7	280	0.36	8x10	450	0.17	8x10	450	0.17
220	6.3x7.7	280	0.36	6.3x7.7	280	0.36	6.3x7.7	280	0.36	8x10	450	0.17	10x10	670	0.09
330	8x10	450	0.17	8x10	450	0.17	8x10	450	0.17	8x10	450	0.17			
470	8x10	450	0.17	8x10	450	0.17	8x10	450	0.17	10x10	670	0.09			
							10x10	670	0.09						
680	8x10	450	0.17	10x10	670	0.09	10x10	670	0.09						
1000	8x10	450	0.17	10x10	670	0.09									
1500	10x10	670	0.09												

Cap (μF) \ WV (V)	50 (1H)			63 (1J)			80 (1K)			100 (2A)		
Item	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP	D x L	R.C.	IMP
1	4x5.4	60	2.90									
2.2	4x5.4	60	2.90									
3.3	4x5.4	60	2.90	5x5.4	85	1.52	5x5.4	60	4.8			
4.7	5x5.4	85	1.52	5x5.4	85	1.52	6.3x5.4	60	4.8			
10	6.3x5.4	165	0.88	6.3x5.4	165	0.88	8x6.2	60	2.4	8x10	130	1.88
22	6.3x5.4	165	0.88	6.3x7.7	185	0.68	8x10	130	1.88	10x10	200	0.90
33	6.3x7.7	185	0.68	8x10	369	0.34	10x10	200	0.90	10x10	200	0.90
47	6.3x7.7	185	0.68	8x10	369	0.34	10x10	200	0.90	10x10	200	0.90
68	8x10	369	0.34	10x10	553	0.18	10x10	200	0.90			
100	8x10	369	0.34	10x10	553	0.18						
	10x10	553	0.18									
150	10x10	553	0.18	10x10	553	0.18						