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Multilayer Ceramic Chip Capacitor

CC Series



INTRODUCTIONS

Yageo CC Series MLCC is Made by Either Pd/Ag or Nickel Electrode System and Offering Full Range of Chip Ceramic Capacitor in 10, 16, 25, 50, 100, 200, 250, 500V Ratings. The Dielectric Material of CC Series Ranging is involved NP0, X7R, Y5V. The CC Series Chip Capacitor Has Much Lower ESR and ESL Than Most Leaded Type Capacitor, and Its Lower Dissipation Factor Leads to Lower Power isWasted Than Aluminum Electrolytic and Tantalum Capacitors.

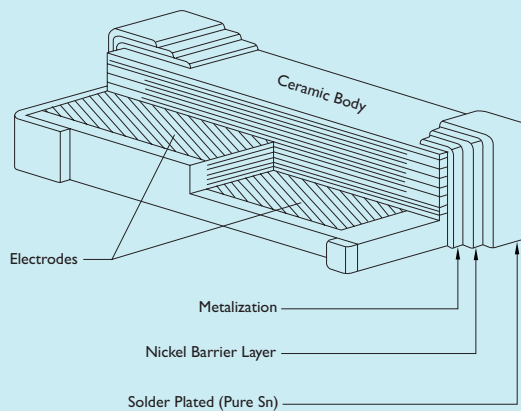
FEATURES

Standard EIA Chip Size Available

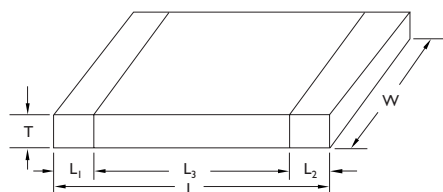
Wide Range of Capacitance 0.47pF~ 10uF is Available for Various Circuit Needs

The CC Series is Available in Both Paper and Plastic Embossed Tape and Reel Packaging for Automatic SMD Placement

Rugged Termination is Capable to Use at Both Reflow and Wave Soldering System



DIMENSIONS



STYLE	L	W	T		L ₁ : L ₂		L ₃
			Min.	Max.	Min.	Max.	Min.
CC0402	1.0±0.05	0.5±0.05	0.45	0.55	0.15	0.30	0.40
CC0603	1.6±0.10	0.8±0.07	0.73	0.87	0.20	0.60	0.40
CC0805	2.0±0.10	1.25±0.10	0.50	1.35	0.25	0.75	0.55
CC1206	3.2±0.15	1.6±0.15	0.50	1.75	0.25	0.75	1.40
CC1210	3.2±0.20	2.5±0.20	0.50	1.80	0.25	0.75	1.40
CC1812	4.5±0.20	3.2±0.20	0.50	1.80	0.25	0.75	2.20

Unit : mm

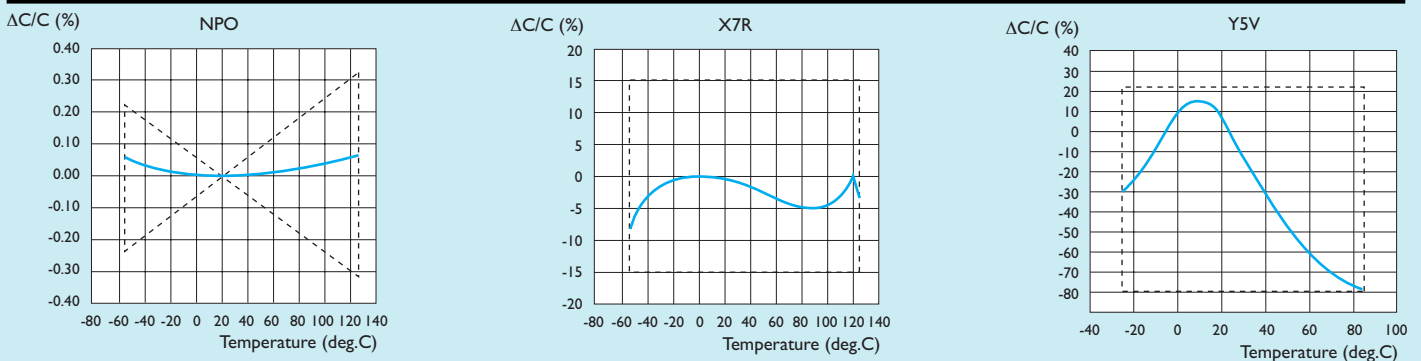
ELECTRICAL CHARACTERISTICS

CHARACTERISTICS	TEST CONDITIONS	REQUIREMENT		
		CLASS I	CLASS II	
		NP0	X7R	Y5V
Operation Temperature Range		-55°C to 125°C	-55°C to 125°C	-25°C to 85°C
Temperature	With Respect to 20°C (25°C for Y5V)	NP0 16V, 0±60ppm/K	±15%	+30% to -80%
Characteristic/Coefficient (TC)	Within Operation Temperature Range	NP0 > 16V, 0±30ppm/K		
Capacitance Tolerance	With Respect to 20°C (25°C for Y5V)	In Accordance with Specification		
Dissipation Factor (Tanδ)	NP0 :	C < 10pF :	U _r = 10V; Tanδ ≤ 5%	U _r = 10V; Tanδ ≤ 12.5%
	C ≤ 1000pF; 1Vrms/1MHz	Tanδ ≤ 10 (3/C+0.7) × 10 ⁻⁴ or 30 × 10 ⁻⁴	U _r = 16V; Tanδ ≤ 3.5%	U _r = 16V; Tanδ ≤ 9% or ≤ 12.5% Depending on Capacitance Value
	C > 1000pF; 1Vrms/1kHz	Whichever is Less		
	X7R/Y5V :	C ≥ 10pF	U _r ≥ 25V; Tanδ ≤ 2.5%	
	1Vrms/1kHz	Tanδ ≤ 10 × 10 ⁻⁴		U _r ≥ 25V; Tanδ ≤ 5% or ≤ 7% Depending on Capacitance Value
Insulation Resistance (IR)	At U _r (Rated Voltage) for 1 Minute 500V for U _r ≥ 500V	R _{ins} ≥ 10GΩ or R _{ins} × C ≥ 500s Whichever is Less	R _{ins} ≥ 10GΩ or R _{ins} × C ≥ 500s Whichever is Less	R _{ins} ≥ 10GΩ or R _{ins} × C ≥ 100s Whichever is Less
Dielectric Withstanding Voltage	At 2.5U _r (for U _r ≤ 100V) 1.5U _r + 100V (for U _r > 100V)	No Breakdown		

ENVIRONMENTED CHARACTERISTICS

IEC	TEST ITEMS	CONDITIONS	REQUIREMENT		
			NP0	X7R	Y5V
384-10					
4.9	Bending	Bending Rate 1mm/s, Jg. Radius 340mm	ΔC/C ≤ 1%	ΔC/C ≤ 10%	ΔC/C ≤ 20%
4.10	Resistance to Soldering Heat	260 ± 5°C for 10 ± 0.5s in Static Soldering Bath	ΔC/C ≤ 0.5% or 0.5pF Whichever is Greater	-5% ≤ ΔC/C ≤ 10%	-10% ≤ ΔC/C ≤ 20%
4.11	Solderability	235 ± 5°C for 2 ± 0.5s in a Static Soldering Bath	75% Minimum Coverage of Metallic Area		
4.12	Rapid Change of Temperature	NP0/X7R : -55°C to +125°C, 5Cycles Y5V : -25°C to +85°C, 5Cycles	ΔC/C ≤ 1% or 1pF Whichever is Greater	ΔC/C ≤ 15%	ΔC/C ≤ 20%
4.14	Damp Heat, Steady State	At 40°C, 90 to 95% R.H. and U _r Applied (Max. 500V, No Voltage for U _r ≥ 1000V) for 56 Days (500 Hours for Y5V)	ΔC/C ≤ 2% or 1pF Whichever is Greater Tanδ : ≤ 2 × Specified Value IR : 2500MΩ or RxC ≥ 25s Whichever is Less	ΔC/C ≤ 15% Tanδ : ≤ 5%, 7% IR : 1000MΩ or RxC ≥ 25s Whichever is Less	ΔC/C ≤ 30% Tanδ : ≤ 7%, 12.5%, 15% IR : 1000MΩ or RxC ≥ 25s Whichever is Less
4.15	Endurance	At Upper Category Temperature, 2 × U _r Applied (1.5U _r for U _r > 50V, 1.2 × U _r for U _r ≥ 1000V) Applied for 1000 Hours	ΔC/C ≤ 2% or 1pF Whichever is Greater Tanδ : ≤ 2 × Specified Value IR : 4000MΩ or RxC ≥ 40s Whichever is Less	ΔC/C ≤ 20% Tanδ : ≤ 5%, 7% IR : 2000MΩ or RxC ≥ 50s Whichever is Less	ΔC/C ≤ 30% Tanδ : ≤ 7%, 12.5%, 15% IR : 2000MΩ or RxC ≥ 50s Whichever is Less

CAPACITANCE - TEMPERATURE CHARACTERISTICS





SPECIFICATION & PACKING

Tape Width : 8mm

NPO

		16V	
CAP.	CODE 15~17	CC0402	CC0603
(pF) 270	271	0.5±0.05	
330	331		
390	391		
470	471		
560	561		
680	681		
820	821		
1000	102		
1200	122		
1500	152		
1800	182		0.8±0.07
2200	222		
2700	272		
3300	332		

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel		Quantity Per Bulk Case	
	180mm/7"	330mm/13"	CC0402	CC0603
	Paper	Paper		
0.5±0.05	10000	50000	50000	-
0.8±0.07	4000	15000	-	15000

SPECIFICATION & PACKING

Tape Width : 8mm

NP0

		25V				
CAP.	CODE 15~17	CC0402	CC0603	CC0805	CC1206	CC1210
(pF) 270	271	0.5±0.05				
330	331					
390	391					
470	471	In Columns : Thickness Class				
560	561					
680	681					
820	821			0.8±0.07		
1000	102					
1200	122					
1500	152					
1800	182					
2200	222					
2700	272					
3300	332			0.85±0.1		
3900	392			1.25±0.1		
4700	472					
5600	562					
6800	682					
8200	822				0.85±0.1	
10000	103					
12000	123					0.5 to 1.0
15000	153					
18000	183					
22000	223					0.9 to 1.3

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel				Quantity Per Bulk Case		
	180mm/7"		330mm/13"		CC0402	CC0603	CC0805
	Paper	Blister	Paper	Blister			
0.5±0.05	10000	-	50000	-	50000	-	-
0.8±0.07	4000	-	15000	-	-	15000	-
0.85±0.1	4000	-	15000	-	-	-	8000
0.5 to 1.0	-	4000	-	10000	-	-	-
0.9 to 1.3	-	3000	-	10000	-	-	-
1.25±0.1	-	3000	-	10000	-	-	5000



SPECIFICATION & PACKING

Tape Width : mm

NPO

TAPE WIDTH		8				12	
		50V				50V	
CAP.	CODE 15-17	CC0402	CC0603	CC0805	CC1206	CC1210	CC1812
(pF) 0.47	R47	0.5±0.05	0.8±0.07	0.6±0.1	0.6±0.1		
0.56	R56						
0.68	R68						
0.82	R82						
1.0	1R0						
1.2	1R2						
1.5	1R5						
1.8	1R8						
2.2	2R2						
2.7	2R7						
3.3	3R3						
3.9	3R9						
4.7	4R7						
5.6	5R6						
6.8	6R8						
8.2	8R2						
10	100						
12	120						
15	150						
18	180						
22	220						
27	270						
33	330						
39	390						
47	470						
56	560						
68	680						
82	820						
100	101						
120	121						
150	151						
180	181						
220	221						
270	271						
330	331						
390	391						
470	471						

In Columns :
Thickness Class

SPECIFICATION & PACKING

Tape Width : mm

NP0

TAPE WIDTH		8				12	
		50V				50V	
CAP.	CODE 15~17	CC0402	CC0603	CC0805	CC1206	CC1210	CC1812
(pF) 560	561						
680	681						
820	821						
1000	102					0.5 to 1.0	
1200	122			0.85±0.1			
1500	152						
1800	182						
2200	222			1.25±0.1			0.5 to 1.0
2700	272						
3300	332				0.85±0.1		
3900	392						
4700	472						
5600	562				1.5±0.1		
6800	682						
8200	822						
10000	103						
12000	123						
15000	153						
18000	183						0.9 to 1.3
22000	223						

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel				12mm Tape Width Quantity Per Reel	Quantity Per Bulk Case		
	180mm/7"		330mm/13"		180mm/7"	CC0402	CC0603	CC0805
	Paper	Blister	Paper	Blister	Blister			
0.5±0.05	10000	-	50000	-	-	50000	-	-
0.6±0.1	4000	-	20000	-	-	-	-	10000
0.8±0.07	4000	-	15000	-	-	-	15000	-
0.85±0.1	4000	-	15000	-	-	-	-	8000
0.5 to 1.0	-	4000	-	10000	2000	-	-	-
0.9 to 1.3	-	3000	-	10000	1500	-	-	-
1.15±0.1	-	3000	-	10000	-	-	-	-
1.25±0.1	-	3000	-	10000	-	-	-	5000



SPECIFICATION & PACKING

Tape Width : mm

NPO		8				12
TAPE WIDTH		100V				100V
CAP.	CODE 15~17	CC0603	CC0805	CC1206	CC1210	CC1812
(pF) 10	100	0.8±0.07	0.6±0.1	0.6±0.1		
12	120					
15	150					
18	180					
22	220					
27	270					
33	330					
39	390					
47	470					
56	560					
68	680					
82	820					
100	101					
120	121					
150	151					
180	181					
220	221					
270	271					
330	331					
390	391					
470	471					
560	561					
680	681					
820	821					
1000	102					
1200	122		0.85±0.1			
1500	152					
1800	182					
2200	222		1.25±0.1			
2700	272					
3300	332			0.85±0.1		
3900	392					
4700	472					
5600	562			1.15±0.1		
6800	682					
8200	822				0.5 to 1.0	
10000	103					
12000	123					0.5 to 1.0
15000	153					
18000	183					0.9 to 1.3
22000	223					

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel				12mm Tape Width Quantity Per Reel		
	180mm/7"		330mm/13"		180mm/7"	Quantity Per Bulk Case	
	Paper	Blister	Paper	Blister	Blister	CC0603	CC0805
0.6±0.1	4000	-	20000	-	-	-	10000
0.8±0.07	4000	-	15000	-	-	15000	-
0.85±0.1	4000	-	15000	-	-	-	8000
0.5 to 1.0	-	4000	-	10000	2000	-	-
0.9 to 1.3	-	3000	-	10000	1500	-	-
1.15±0.1	-	3000	-	10000	-	-	-
1.25±0.1	-	3000	-	10000	-	-	5000

SPECIFICATION & PACKING

Tape Width : mm

NPO		8			12		8		12
TAPE WIDTH		200V			200V		500V		500V
CAP.	CODE 15~17	CC0805	CC1206	CC1210	CC1812	CC1206	CC1210	CC1812	
(pF) 10	100	0.6±0.1	0.6±0.1			0.6±0.1			
12	120								
15	150								
18	180								
22	220								
27	270								
33	330								
39	390								
47	470								
56	560								
68	680								
82	820								
100	101								
120	121								
150	151								
180	181								
220	221	0.85±0.1	0.85±0.1			0.85±0.1			
270	271								
330	331								
390	391								
470	471								
560	561	1.25±0.1				1.15±0.1			
680	681								
820	821								
1000	102								
1200	122								
1500	152		1.15±0.1						
1800	182			0.8 to 1.0					
2200	222			0.9 to 1.3					
2700	272								
3300	332								
3900	392								
4700	472								
5600	562								

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel				12mm Tape Width Quantity Per Reel		Quantity Per Bulk Case
	180mm/7"		330mm/13"		180mm/7"	Quantity Per Bulk Case	
	Paper	Blister	Paper	Blister	Blister		
0.6±0.1	4000	-	20000	-	-	10000	
0.85±0.07	4000	-	15000	-	-	8000	
0.8 to 1.0	-	4000	-	10000	2000	-	
0.9 to 1.3	-	3000	-	10000	1500	-	
1.15±0.1	-	3000	-	10000	-	-	
1.25±0.1	-	3000	-	10000	-	5000	
1.2 to 1.75	-	2500	-	10000	1200	-	



SPECIFICATION & PACKING

Tape Width : 8mm

X7R		10V			
CAP.	CODE 15~17	CC0603	CC0805	CC1206	
(pF) 150000	154	0.8±0.07			
220000	224		0.6±0.1		
330000	334		0.85±0.1		
470000	474				
680000	684		1.25±0.1		
1000000	105	In Columns : Thickness Class		0.85±0.1	
1500000	155			1.15±0.1	
2200000	225				
3300000	335			1.60±0.15	
4700000	475				

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel				Quantity Per Bulk Case	
	180mm/7"		330mm/13"		CC0603	CC0805
	Paper	Blister	Paper	Blister		
0.6±0.1	4000	-	20000	-	-	10000
0.8±0.07	4000	-	15000	-	15000	-
0.85±0.1	4000	-	15000	-	-	8000
1.15±0.1	-	3000	-	10000	-	-
1.25±0.1	-	3000	-	10000	-	5000
1.60±0.15	-	2500	-	7000	-	-

SPECIFICATION & PACKING

Tape W idth : 8mm

X7R		16V				25V				
CAP.	CODE 15~17	CC0402	CC0603	CC0805	CC1206	CC0402	CC0603	CC0805	CC1206	CC1210
(pF) 3300	332					0.5±0.05				
4700	472									
6800	682	0.5±0.05								
10000	103						0.8±0.07	0.6±0.01		
15000	153									
22000	223									
33000	333		0.8±0.07							
47000	473			0.6±0.1				0.85±0.1		
68000	683									
100000	104			0.85±0.1					0.85±0.1	
150000	154									
220000	224				0.85±0.1					0.5 to 1.0
330000	334			1.25±0.1					1.15±0.1	
470000	474									
680000	684				1.15±0.1					
1000000	105									

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape W idth Quantity Per Reel				8mm Tape W idth Quantity Per Reel		Quantity Per Bulk Case		
	180mm/7"		330mm/13"		180mm/7"				
	Paper	Blister	Paper	Blister	Blister	CC0402	CC0603	CC0805	
0.5±0.05	10000	-	50000	-	-	50000	-	-	
0.6±0.1	4000	-	20000	-	-	-	-	10000	
0.8±0.07	4000	-	15000	-	-	-	15000	-	
0.85±0.1	4000	-	15000	-	-	-	-	8000	
0.5 to 1.0	-	4000	-	10000	-	-	-	-	
0.9 to 1.3	-	3000	-	10000	1500	-	-	-	
1.15±0.1	-	3000	-	10000	-	-	-	-	
1.25±0.1	-	3000	-	10000	-	-	-	5000	
1.2 to 1.75	-	2500	-	10000	-	-	-	-	



SPECIFICATION & PACKING

Tape Width : mm

X7R												
TAPE WIDTH		8					12		8		12	
		50V					50V		100V		100V	
CAP.	CODE 15~17	CC0402	CC0603	CC0805	CC1206	CC1210	CC1812	CC0805	CC1206	CC1210	CC1812	
(pF) 100	101	0.5±0.05	0.8±0.07									
150	151											
220	221			0.6±0.1	0.85±0.1			0.6±0.1	0.85±0.1			
330	331											
470	471											
680	681											
1000	102											
1500	152											
2200	222											
3300	332											
4700	472											
6800	682											
10000	103					0.5 to 1.0						
15000	153							0.85±0.1				
22000	223											
33000	333			0.85±0.1								
47000	473									0.5 to 1.0		
68000	683			1.25±0.1					1.15±0.1			
100000	104						0.9 to 1.3				0.9 to 1.3	
150000	154				1.15±0.1					0.9 to 1.3		
220000	224					0.9 to 1.3						
330000	334											
470000	474											
680000	684											
1000000	105						1.2 to 1.75					

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape Width Quantity Per Reel				8mm Tape Width Quantity Per Reel			
	180mm/7"		330mm/13"		180mm/7"		Quantity Per Bulk Case	
	Paper	Blister	Paper	Blister	Blister	CC0402	CC0603	CC0805
0.5±0.05	10000	-	50000	-	-	50000	-	-
0.6±0.1	4000	-	20000	-	-	-	-	10000
0.8±0.07	4000	-	15000	-	-	-	15000	-
0.85±0.1	4000	-	15000	-	-	-	-	8000
0.5 to 1.0	-	4000	-	10000	-	-	-	-
0.9 to 1.3	-	3000	-	10000	1500	-	-	-
1.15±0.1	-	3000	-	10000	-	-	-	-
1.25±0.1	-	3000	-	10000	-	-	-	5000
1.2 to 1.75	-	2500	-	10000	-	-	-	-

SPECIFICATION & PACKING

Tape W idth : mm

X7R		8			12		8		12
TAPE W ISTH		200V			200V		500V		500V
CAP.	CODE 15~17	CC0805	CC1206	CC1210	CC1812	CC1206	CC1210	CC1812	
(pF) 220	221	0.85±0.1							
330	331								
470	471								
680	681		0.85±0.1						
1000	102								
1500	152								
2200	222								
3300	332								
4700	472								
6800	682	1.25±0.1							
10000	103								
15000	153								
22000	223		1.15±0.1	0.9 to 1.3					
33000	333								
47000	473								
68000	683								
100000	104								

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape W idth Quantity Per Reel				12mm Tape W idth Quantity Per Reel		Quantity Per Bulk Case
	180mm/7"		330mm/13"		180mm/7"		
	Paper	Blister	Paper	Blister	Blister	CC0805	
0.85±0.1	4000	-	15000	-	-	-	8000
0.9 to 1.3	-	3000	-	10000	15000	-	-
1.15±0.1	-	3000	-	10000	-	-	-
1.25±0.1	-	3000	-	10000	-	-	5000
1.2 to 1.75	-	2500	-	10000	-	-	-

SPECIFICATION & PACKING

Tape W idth : 8mm

Y5V		10V				
CAP.	CODE 15~17	CC0603	CC0805	CC1206		
(μF) 1.0	105	0.8±0.07	0.85±0.1			
2.2	225					
4.7	475					
10	106					1.6±0.15

In Columns :
Thickness Class

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape W idth Quantity Per Reel				Quantity Per Bulk Case	
	180mm/7"		330mm/13"		CC0603	
	Paper	Blister	Paper	Blister	CC0603	CC0805
0.8±0.07	4000	-	15000	-	15000	-
0.85±0.1	-	3000	-	10000	-	5000
1.6±0.15	-	2500	-	7000	-	-



SPECIFICATION & PACKING

Tape W idth :8mm

Y5V		16V				25V		
CAP.	CODE 15~17	CC0402	CC0603	CC0805	CC1206	CC0603	CC0805	CC1206
(pF) 10000	103	0.5±0.05	In Columns : Thickness Class			0.8±0.07		
22000	223							
47000	473							
100000	104							
220000	224		0.8±0.1				0.6±0.1	0.6±0.1
470000	474			0.85±0.1			0.85±0.1	
1000000	105			1.25±0.1	0.85±0.1		1.25±0.1	0.85±0.1
2200000	225				1.15±0.1			1.15±0.1
4700000	475							

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape W idth Quantity Per Reel				Quantity Per Bulk Case		
	180mm/7"		330mm/13"		CC0402	CC0603	CC0805
	Paper	Blister	Paper	Blister			
0.5 ± 0.05	10000	-	50000	-	50000	-	-
0.6 ± 0.1	4000	-	20000	-	-	-	10000
0.8 ± 0.07	4000	-	15000	-	-	15000	-
0.85 ± 0.1	4000	-	15000	-	-	-	8000
1.15 ± 0.1	-	3000	-	10000	-	-	-
1.25 ± 0.1	-	3000	-	10000	-	-	5000

SPECIFICATION & PACKING

Tape W idth :8mm

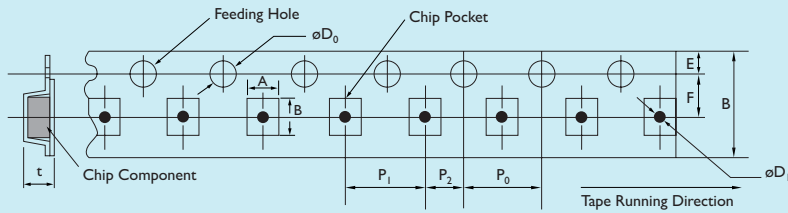
Y5V		50V		
CAP.	CODE 15~17	CC0603	CC0805	CC1206
(pF) 10000	103	0.8±0.07	0.6±0.1	
22000	223			
47000	473			
100000	104			
220000	224	In Columns : Thickness Class	0.85±0.1	
470000	474			0.85±0.1
1000000	105			1.15±0.1

THICKNESS CLASS AND PACKAGING QUANTITIES

Thickness Classes (mm)	8mm Tape W idth Quantity Per Reel				Quantity Per Bulk Case		
	180mm/7"		330mm/13"		CC0402	CC0603	CC0805
	Paper	Blister	Paper	Blister			
0.5 ± 0.05	10000	-	50000	-	50000	-	-
0.6 ± 0.1	4000	-	20000	-	-	-	10000
0.8 ± 0.07	4000	-	15000	-	-	15000	-
0.85 ± 0.1	4000	-	15000	-	-	-	8000
1.15 ± 0.1	-	3000	-	10000	-	-	-
1.25 ± 0.1	-	3000	-	10000	-	-	5000

EMBOSSED TAPING

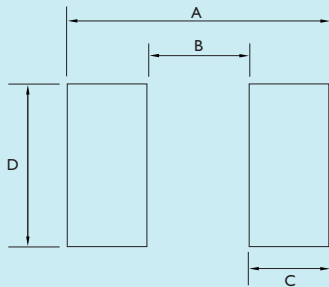
Unit : mm



STYLE	A	B	W	E	F	P ₀	P ₁	P ₂	ϕD_0	ϕD_1	T _{max}
0805	1.45±0.1	2.2±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4±0.1	4±0.1	2±0.05	1.5 ^{+0.1} ₀	≥1	2.0±0.1
1206	1.9±0.15	3.5±0.15	8.0±0.2	1.75±0.1	3.5±0.05	4±0.1	4±0.1	2±0.05	1.5 ^{+0.1} ₀	≥1	2.5±0.1
1210	3.0 (Max.)	3.0 (Max.)	8.1±0.2	1.75±0.1	3.5±0.05	4±0.1	4±0.1	2±0.05	1.5 ^{+0.1} ₀	≥1	3.5 (Max.)
1812	4.0 (Max.)	4.0 (Max.)	12.0±0.2	1.75±0.1	5.5±0.05	4±0.1	8±0.1	2±0.05	1.5 ^{+0.1} ₀	1.5	3.5 (Max.)

RECOMMENDED LAND PATTERN DESIGN

Unit : mm



Soldering Pad

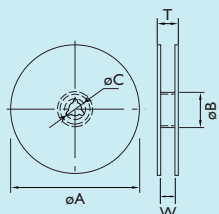
REFLOW SOLDERING

STYLE	FOOTPRINT DIMENSION (mm)				PLACEMENT
	A	B	C	D	ACCURACY (mm)
0402	1.5	0.5	0.5	0.5	±0.15
0603	2.3	0.5	0.9	0.9	±0.25
0805	2.8	0.9	0.95	1.4	±0.25
1206	4.0	2.0	1.0	1.8	±0.25
1210	4.0	2.0	1.0	2.7	±0.25
1808	5.4	3.3	1.05	2.3	±0.25
1812	5.4	3.3	1.05	3.5	±0.25

WAVE SOLDERING

STYLE	FOOTPRINT DIMENSION (mm)				PLACEMENT
	A	B	C	D	ACCURACY (mm)
0603	2.7	0.9	0.9	0.8	±0.25
0805	3.4	1.3	1.05	1.3	±0.25
1206	4.8	2.3	1.25	1.7	±0.25
1210	5.3	2.3	1.50	2.6	±0.25

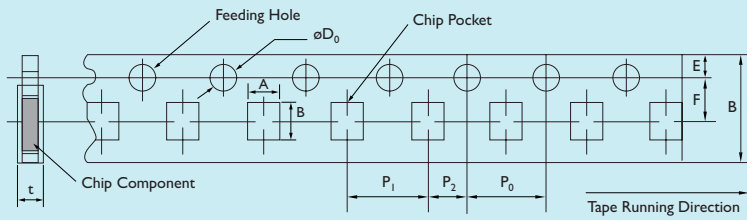
TAPING REEL



STYLE	TAPEWIDE	ϕA	ϕB	ϕC	W	T _{Max.}
0402/0603/0805/1206	8	180 ⁺⁰ ₋₃	60 ⁺¹ ₀	20.5	9.0±0.3	11.4±1
0402/0603/0805/1206	8	330±3	60 ⁺¹ ₀	20.5	9.0±0.3	11.4±1
1812	12	180	62±1.5	20.5	12.4 ⁺² ₀	18.4 (Max.)

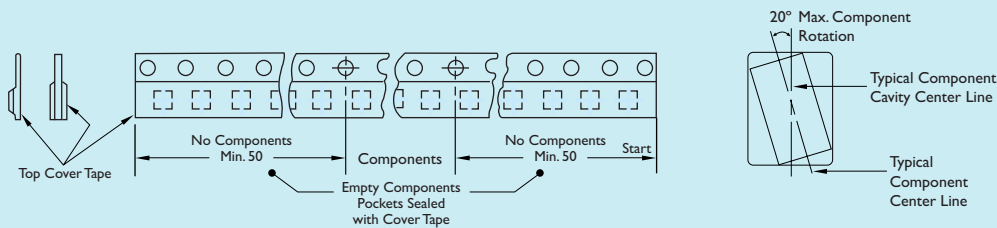


TAPING REEL

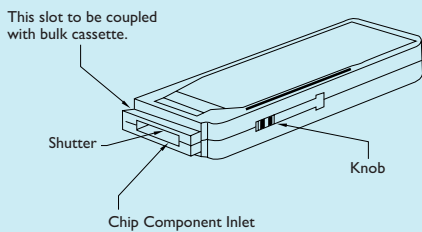


STYLE	A	B	W	E	F	P ₀	P ₁	P ₂	øD ₀	T _{max}
0402	0.62±0.05	1.12±0.05	8.0±0.2	1.75±0.1	3.5±0.05	4±0.05	2±0.05	2±0.05	1.5 ^{+0.1} ₋₀	0.6±0.05
0603	1.10±0.1	1.9±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4±0.1	4±0.1	2±0.05	1.5 ^{+0.1} ₋₀	1.0±0.05
0805	1.65±0.1	2.4±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4±0.1	4±0.1	2±0.05	1.5 ^{+0.1} ₋₀	1.0±0.05
1206	2.0±0.1	3.5±0.1	8.0±0.2	1.75±0.1	3.5±0.05	4±0.1	4±0.1	2±0.05	1.5 ^{+0.1} ₋₀	1.0±0.05

TAPING REEL



BULK CASSETTE

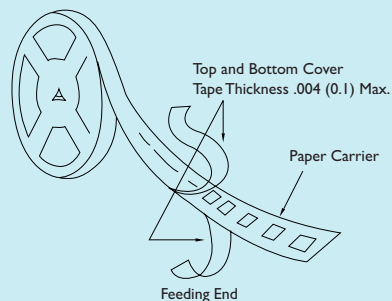


Dimension of Bulk Case

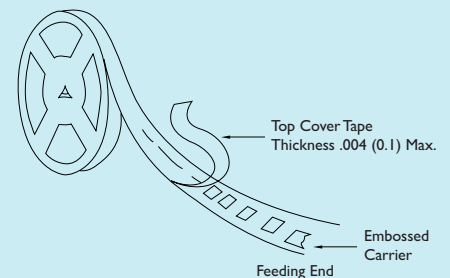
110 x 36 x 12 mm (L x W x T)

Bulk case was standardized in Mar. 1992 (EIA-7201).

PAPER CARRIER



EMBOSSED PLASTIC CARRIER

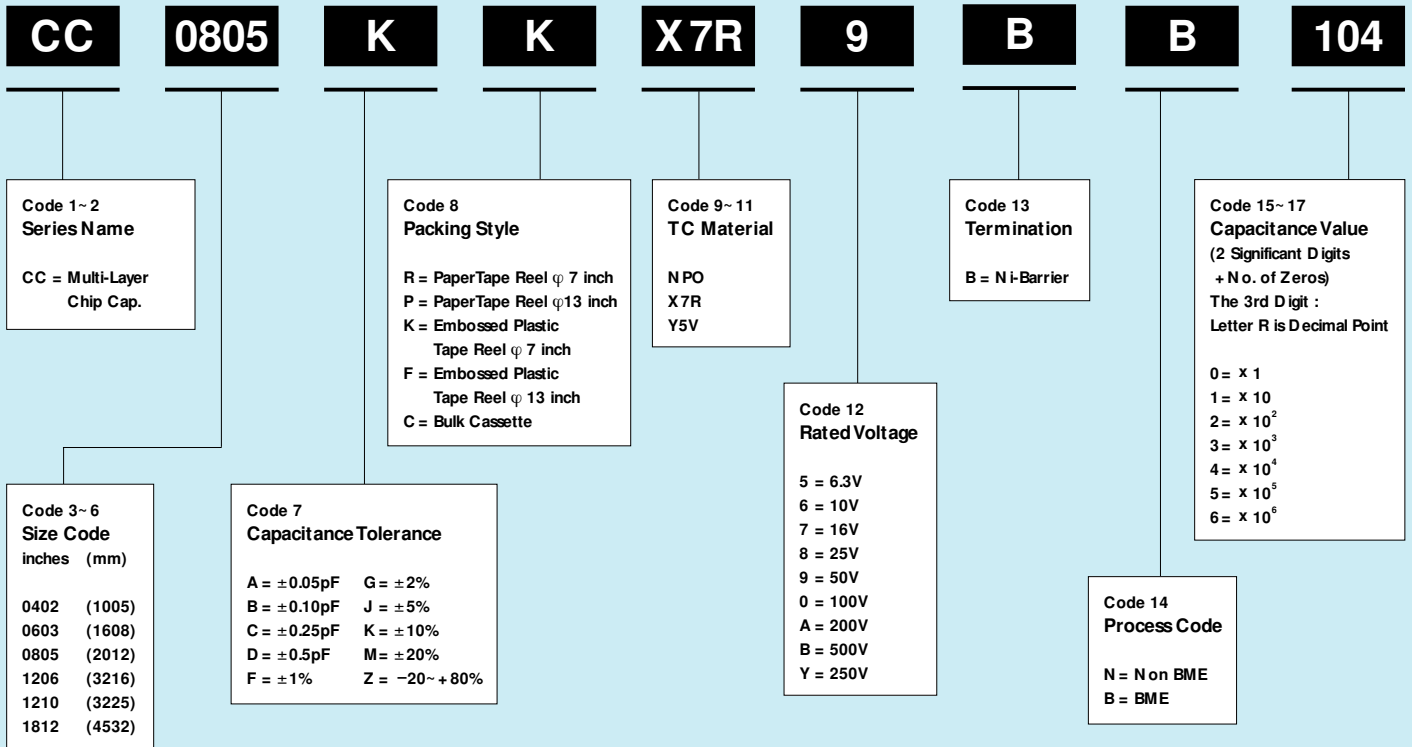


YAGEO CORPORATION

1. SUBJECT : This specification applies on the chip capacitor made by Yageo Corporation.

2. PART NUMBER : Part number of the chip capacitor is identified by the size, tolerance, packing, material and capacitor value.

Example :



STANDARD SERIES OF VALUES

E6 SERIES	10	15	22	33	47	68							
E12 SERIES	10	12	15	18	22	27	33	39	47	56	68	82	