

**YAGEO**

**Product Selection Tables  
2005**

**MLCC**

**Yageo brand**



**YAGEO**



# Table of Contents

Table of contents	
MLCC - NP0 / Yageo brand	2
NP0, 16V, general purpose	2
NP0, 25V, general purpose	3
NP0, 50V, general purpose	4
NP0, 100V, general purpose	6
NP0, 200V and 500V, medium voltage	7
MLCC - X7R / Yageo brand	8
X7R, 10V, general purpose	8
X7R, 16V and 25V, general purpose	9
X7R, 50V and 100V, general purpose	10
X7R, 200V, 250V and 500V, medium voltage	11
MLCC - Y5V / Yageo brand	12
Y5V, 10V to 50V, general purpose	12
General information	13
Ordering and packing	13
Yageo - A Global Company	15
Contact information	15

# MLCC - NP0 / Yageo brand

## NP0, 16V, general purpose

NP0 - 16V			
General purpose			
Capacitance	Last 3 digits of Yageo part number	16V	
		0402	0603
270 pF	271	0.5 ±0.05	
330 pF	331		
390 pF	391		
470 pF	471		
1.8 nF	182		0.8 ±0.07
2.2 nF	222		
2.7 nF	272		
3.3 nF	332		
Tape width		8mm	

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - NP0 / Yageo brand

## NP0, 25V, general purpose

NP0 - 25V					
General purpose					
Capacitance	Last 3 digits of Yageo part number	25V			
		0603	0805	1206	1210
820 pF	821	0.8 ±0.07			
1000 pF	102				
1.2 nF	122				
1.5 nF	152				
3.3 nF	332		0.85 ±0.1		
3.9 nF	392		1.25 ±0.1		
4.7 nF	472				
8.2 nF	822			0.85 ±0.1	
10 nF	103				
12 nF	123				0.6 ±0.1
15 nF	153				0.85 ±0.1
18 nF	183				
22 nF	223				1.15 ±0.15
Tape width		8mm			

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - NP0 / Yageo brand

## NP0, 50V, general purpose

NP0 - 50V							
General purpose							
Capacitance	Last 3 digits of Yageo part number	50V					
		0402	0603	0805	1206	1210	1812
0.47 pF	R47	0.5 ±0.05	0.8 ±0.07	0.6 ±0.1	0.6 ±0.1		
0.56 pF	R56						
0.68 pF	R68						
0.82 pF	R82						
1 pF	1R0						
1.2 pF	1R2						
1.5 pF	1R5						
1.8 pF	1R8						
2.2 pF	2R2						
2.7 pF	2R7						
3.3 pF	3R3						
3.9 pF	3R9						
4.7 pF	4R7						
5.6 pF	5R6						
6.8 pF	6R8						
8.2 pF	8R2						
10 pF	100						
12 pF	120						
15 pF	150						
18 pF	180						
22 pF	220						
27 pF	270						
33 pF	330						
39 pF	390						
47 pF	470					0.6 ±0.1	
56 pF	560						
68 pF	680						
82 pF	820						
100 pF	101						
120 pF	121						
150 pF	151						
180 pF	181						
220 pF	221						
270 pF	271						
330 pF	331						0.6 ±0.1
390 pF	391						
470 pF	471						
560 pF	561						
680 pF	681						
820 pF	821						
1000 pF	102						
1.2 nF	122			0.85 ±0.1			
1.5 nF	152						
1.8 nF	182						
2.2 nF	222			1.25 ±0.1			
2.7 nF	272						
3.3 nF	332				0.85 ±0.1		
3.9 nF	392						
4.7 nF	472						
5.6 nF	562				1.15 ±0.1	0.85 ±0.1	
6.8 nF	682						

# MLCC - NP0 / Yageo brand

## NP0, 50V, general purpose

NP0 - 50V								
General purpose								
Capacitance	Last 3 digits of Yageo part number	50V						
		0402	0603	0805	1206	1210	1812	
8.2 nF	822							
10 nF	103							
12 nF	123						0.85 ±0.1	
15 nF	153							
18 nF	183						1.15 ±0.15	
22 nF	223							
Tape width		8mm					12mm	

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - NP0 / Yageo brand

## NP0, 100V, general purpose

NP0 - 100V						
General purpose						
Capacitance	Last 3 digits of Yageo part number	100V				
		0603	0805	1206	1210	1812
10 pF	100	0.8 ±0.07	0.6 ±0.1	0.6 ±0.1		
12 pF	120					
15 pF	150					
18 pF	180					
22 pF	220					
27 pF	270					
33 pF	330					
39 pF	390					
47 pF	470					
56 pF	560					
68 pF	680					
82 pF	820					
100 pF	101					
120 pF	121					
150 pF	151					
180 pF	181					
220 pF	221					
270 pF	271					
330 pF	331					
390 pF	391					
470 pF	471					
560 pF	561					
680 pF	681					
820 pF	821					
1000 pF	102					
1.2 nF	122		0.85 ±0.1			
1.5 nF	152					
1.8 nF	182					
2.2 nF	222		1.25 ±0.1			
2.7 nF	272					
3.3 nF	332			0.85 ±0.1		
3.9 nF	392					
4.7 nF	472					
5.6 nF	562			1.15 ±0.1		
6.8 nF	682					
8.2 nF	822				0.85 ±0.1	
10 nF	103					
12 nF	123					0.85 ±0.1
15 nF	153					
18 nF	183					1.15 ±0.15
22 nF	223					
Tape width		8mm				12mm

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - NP0 / Yageo brand

## NP0, 200V and 500V, medium voltage

NP0 - 200V and 500V								
Medium voltage								
Capacitance	Last 3 digits of Yageo part number	200V				500V		
		0805	1206	1210	1812	1206	1210	1812
10 pF	100	0.6 ±0.1	0.6 ±0.1			0.6 ±0.1		
12 pF	120							
15 pF	150							
18 pF	180							
22 pF	220							
27 pF	270							
33 pF	330							
39 pF	390							
47 pF	470						0.85 ±0.1	
56 pF	560							
68 pF	680							
82 pF	820							
100 pF	101							
120 pF	121							
150 pF	151							
180 pF	181							
220 pF	221	0.85 ±0.1	0.85 ±0.1			0.85 ±0.1		
270 pF	271							
330 pF	331							
390 pF	391							
470 pF	471							
560 pF	561	1.25 ±0.1				1.15 ±0.1		
680 pF	681							
820 pF	821							
1000 pF	102						1.15 ±0.15	
1.2 nF	122							
1.5 nF	152		1.15 ±0.1					
1.8 nF	182			0.85 ±0.1				
2.2 nF	222							1.15 ±0.15
2.7 nF	272			1.15 ±0.15				
3.3 nF	332							
3.9 nF	392				0.85 ±0.1			
4.7 nF	472				1.15 ±0.15			
5.6 nF	562							
Tape width		8mm			12mm		12mm	

Note: Values in shaded cells indicate thickness class (Unit: mm)



# MLCC - X7R / Yageo brand

## X7R, 10V, general purpose

X7R - 10V				
General purpose				
Capacitance	Last 3 digits of Yageo part number	10V		
		0603	0805	1206
150 nF	154	0.8 ±0.07		
220 nF	224		0.6 ±0.1	
330 nF	334		0.85 ±0.1	
470 nF	474			
680 nF	684		1.25 ±0.1	
1000 nF	105			0.85 ±0.1
1.5 µF	155			1.15 ±0.1
2.2 µF	225			
4.7 µF	475			1.6 ±0.2
Tape width		8 mm		

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - X7R / Yageo brand

## X7R, 16V and 25V, general purpose

X7R - 16V and 25V										
General purpose										
Capacitance	Last 3 digits of Yageo part number	16V				25V				
		0402	0603	0805	1206	0402	0603	0805	1206	1210
3.3 nF	332					0.5 ±0.05				
4.7 nF	472									
6.8 nF	682	0.5 ±0.05								
10 nF	103						0.8 ±0.07	0.6 ±0.1		
15 nF	153									
22 nF	223									
33 nF	333		0.8 ±0.07							
47 nF	473	0.5 ±0.05		0.6 ±0.1				0.85 ±0.1		
68 nF	683									
100 nF	104			0.85 ±0.1					0.85 ±0.1	
150 nF	154									
220 nF	224				0.85 ±0.1					0.85 ±0.1
330 nF	334			1.25 ±0.1					1.15 ±0.1	
470 nF	474				1.15 ±0.1					
680 nF	684									
1000 nF	105								1.6 ±0.2	
Tape width		8mm								

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - X7R / Yageo brand

## X7R, 50V and 100V, general purpose

X7R - 50V and 100V												
General purpose												
Capacitance	Last 3 digits of Yageo part number	50V						100V				
		0402	0603	0805	1206	1210	1812	0805	1206	1210	1812	
100 pF	101	0.5 ±0.05	0.8 ±0.07									
150 pF	151											
220 pF	221			0.6 ±0.1	0.85 ±0.1			0.6 ±0.1	0.85 ±0.1			
330 pF	331											
470 pF	471											
680 pF	681											
1000 pF	102											
1.5 nF	152											
2.2 nF	222											
3.3 nF	332											
4.7 nF	472											
6.8 nF	682											
10 nF	103					0.85 ±0.1						
15 nF	153							0.85 ±0.1				
22 nF	223											
33 nF	333			0.85 ±0.1								
47 nF	473									0.85 ±0.1		
68 nF	683								1.15 ±0.1			
100 nF	104						1.15 ±0.1				1.15 ±0.1	
150 nF	154				1.15 ±0.1	1.15 ±0.1				1.15 ±0.1		
220 nF	224											
330 nF	334											
470 nF	474										1.6 ±0.2	
680 nF	684							1.6 ±0.2				
1000 nF	105											
Tape width		8mm					12mm		8mm			12mm

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - X7R / Yageo brand

## X7R, 200V, 250V and 500V, medium voltage

X7R - 200 V and 500 V								
Medium voltage								
Capacitance	Last 3 digits of Yageo part number	200V				500V		
		0805	1206	1210	1812	1206	1210	1812
220 pF	221	0.85 ±0.1						
330 pF	331							
470 pF	471					1.15 ±0.1		
680 pF	681		0.85 ±0.1					
1000 pF	102							
1.5 nF	152							
2.2 nF	222							
3.3 nF	332						1.15 ±0.1	
4.7 nF	472							
6.8 nF	682	1.25 ±0.1						
10 nF	103							1.15 ±0.1
15 nF	153							
22 nF	223		1.15 ±0.1	1.15 ±0.1				
33 nF	333							
47 nF	473				1.15 ±0.1			
68 nF	683							
100 nF	104							
Tape width		8mm			12mm	8mm		12mm

Note: Values in shaded cells indicate thickness class (Unit: mm)

# MLCC - Y5V / Yageo brand

Y5V, 10V to 50V, general purpose

Y5V - 16V to 50V											
General purpose											
Capacitance	Last 3 digits of Yageo part number	16V				25V			50V		
		0402	0603	0805	1206	0603	0805	1206	0603	0805	1206
10 nF	103	0.5 ±0.05				0.8 ±0.07			0.8 ±0.07	0.6 ±0.1	
22 nF	223										
47 nF	473										
100 nF	104						0.6 ±0.1	0.6 ±0.1			0.6 ±0.1
220 nF	224		0.8 ±0.07				0.85 ±0.1			0.85 ±0.1	
470 nF	474			0.85 ±0.1			1.25 ±0.1	0.85 ±0.1			0.85 ±0.1
1000 nF	105			1.25 ±0.1	0.85 ±0.1			1.15 ±0.1			1.15 ±0.1
Tape width		8mm									

Note: Values in shaded cells indicate thickness class (Unit: mm)

# General information

## Ordering and packing

Ordering Information:



Thickness classes and packing quantities

Size Code	Thickness Classification (mm)	Tape Width Quantity Per Reel	180 mm / 7"		330 mm / 13"		Quantity Per Bulk Case
			Paper	Blister	Paper	Blister	
CC0402	0.5±0.05	8 mm	10 000	---	50 000	---	50 000
CC0603	0.8±0.07	8 mm	4 000	---	15 000	---	15 000
CC0805	0.6±0.1	8 mm	4 000	---	20 000	---	10 000
	0.85±0.1	8 mm	4 000	---	15 000	---	8 000
	1.25±0.1	8 mm	---	3 000	---	10 000	5 000
CC1206	0.6±0.1	8 mm	4 000	---	20 000	---	---
	0.85±0.1	8 mm	4 000	---	15 000	---	---
	1.15±0.1	8 mm	---	3 000	---	10 000	---
	1.6±0.2	8 mm	---	2 000	---	10 000	---
CC1210	0.6±0.1	8 mm	---	4 000	---	15 000	---
	0.85±0.1	8 mm	---	4 000	---	10 000	---
	1.15±0.1	8 mm	---	3 000	---	10 000	---
	1.15±0.15	8 mm	---	3 000	---	10 000	---
	1.9±0.2	8 mm	---	2 000	---	---	---
CC1812	2.5±0.2	8 mm	---	1 000	---	---	---
	0.6/0.85±0.1	12 mm	---	2 000	---	---	---
	1.15±0.1	12 mm	---	1 500	---	---	---
	1.15±0.15	12 mm	---	1 500	---	---	---
	1.6±0.2	12 mm	---	1 000	---	---	---
	2.5±0.2	12 mm	---	1 000	---	---	---

### Asia

#### Yageo Taiwan

Tel. +886 (0)2 2917 7555

Fax. +886 (0)2 2917 4286

#### Yageo China, Dongguan

Tel. +86 769 772 0275

Fax. +86 769 791 0053

#### Yageo China, Suzhou

Tel. +86 512 825 5568

Fax. +86 512 825 5386

#### Yageo China, Beijing

Tel. +86 10 851 20810

Fax. +86 10 851 20200

#### Yageo Hong Kong

Tel. +852 2342 6833

Fax. +852 2342 6588

#### Yageo Japan

Tel. +81 3 5833 3331

Fax. +81 3 5833 3116

#### Yageo Korea

Tel. +82 31 712 4797

Fax. +82 31 712 5866

#### Yageo Malaysia, Penang

Tel. +60 4 397 3317

Fax. +60 4 397 3272

#### Yageo Malaysia, Kuala Lumpur

Tel. +60 3 5882 2854

Fax. +60 3 5882 8700

#### Yageo Singapore

Tel. +65-6244 7800

Fax. +65-6244 4943

### Europe

#### Yageo Benelux

Tel. +31 475 385 357

Fax. +31 475 385 589

#### Yageo Finland

Tel. +358 (0)9 2707 5851

Fax. +358 (0)9 2707 5852

#### Yageo France

Tel. +33 1 55 51 84 00

Fax. +33 1 55 51 84 24

#### Yageo Germany / Central Europe

Tel. +49 4121 870-0

Fax. +49 4121 870-271

#### Yageo Italy / South Europe

Tel. +39 02 2411 301

Fax. +39 02 2411 3051

#### Yageo UK

Tel. +44 1372 364500

Fax. +44 1372 364567

#### Yageo Iberia

Tel. +34 93 238 9172

Fax. +34 93 415 9951

#### Yageo Hungary

Tel. +36-30-3777-441

Fax. +36-94-517-701

#### Yageo Russia

Tel. +7 501 430 96 27

Fax. +7 095 567 02 66

#### Yageo Sweden / Nordic

Tel. +46 8 514 933 55

Fax. +46 8 514 933 51

#### Yageo Czech Republic

Tel. +420-5-43 23 92 33

Fax. +420-5-43 23 92 33

### North America

#### Yageo USA, Seattle

Tel. +1 425 492 2818

Fax. +1 425 492 2819

#### Yageo USA, Dallas

Tel. +1 972 599 0099

Fax. +1 972 599 0099