

## Ceramic Capacitors

### CCC-31

(1 Flap FL24/10) 24 Values / 600 Pieces  
One Layer Ceramic capacitors for 100 V-DC

Type/Brand: EGPU / PHILIPS or alternative

Temperature: -55 to +125°C

Pitch: 2,5mm

Capacitances	Ceramic Tolerance	Capacitances	Ceramic Tolerance
1,0-1,5pF	P 100 ± 0,25pF	10-180pF	NP 0 ± 2%
2,2-6,8pF	NP 0 ± 0,25pF	220-680pF	K 2000 ± 10%

#### Values-Quantities Selection:

1,0pF	25x	4,7pF	25x	22pF	25x	56pF	25x	180pF	25x	390pF	25x
1,5pF	25x	6,8pF	25x	27pF	25x	68pF	25x	220pF	25x	470pF	25x
2,2pF	25x	10pF	25x	33pF	25x	100pF	25x	270pF	25x	560pF	25x
3,3pF	25x	15pF	25x	47pF	25x	150pF	25x	330pF	25x	680pF	25x

### CCC-32

(1 Flap FL24/10) 24 Values / 285 Pieces  
Ceramic capacitors for 50 V-DC

Type/Brand: KDPU / PHILIPS or alternative

Pitch: 5mm

Capacitances	Ceramic Tolerance	Temperature
1,0nF-10nF	X7R ± 10%	-55 to +125°C
15nF-1,0uF	Z5U ± 20%	-55 to + 85°C

#### Values-Quantities Selection:

1,0nF	25x	3,3nF	10x	6,8nF	10x	27nF	5x	68nF	15x	0,33uF	5x
1,5nF	10x	3,9nF	5x	10nF	25x	33nF	15x	0,10uF	20x	0,47uF	10x
2,2nF	10x	4,7nF	25x	15nF	10x	47nF	20x	0,15uF	5x	0,68uF	5x
2,7nF	5x	5,6nF	5x	22nF	15x	56nF	10x	0,22uF	10x	1,0uF	10x

**CCC-37**

(1 Flap FL16/10) 16 Values / 305 Pieces  
Multi-Layer Ceramic Capacitors for 63V/100V-DC

**Type/Brand:** B37981.. B37987.. B37988.. B37985.. B37988 / Epcos  
**Temperature:** -55 to +125°C (X7R) -25 to +85°C (Z5U)  
**Ceramic:** X7R (1,0 - 100nF) Z5U (0,1 - 2,2uF)  
**Tolerance:** ±10% for X7R / ± 20% for Z5U  
**Pitch:** 5mm

**Values-Quantities Selection:**

1,0nF	25x	2,2nF	25x	3,3nF	10x	4,7nF	20x
10nF	25x	15nF	10x	22nF	20x	33nF	10x
47nF	25x	68nF	10x	100nF	25x	100nF	25x
220nF	25x	470nF	15x	1,0uF	25x	2,2uF	10x

**Chip Ceramic Capacitors****SMC-31**

(1 Flap FL24/10) 24 Values / 2.520 Pieces  
Multilayer Ceramic capacitor in chip form

**Type/Brand:** MLCC / Yageo Europe or alternative  
**Voltage:** 63V-DC  
**Temperature:** -55 to +125°C  
**Size:** 805

**Values-Quantities Selection: 105 pcs each**

1,0pF/NP0/±0,25pF	10pF/NP0/±5%	100pF/NP0/±5%	1,0nF/X7R/±10%
1,5pF	15pF	150pF	1,5nF
2,2pF	22pF	220pF/X7R/±10%	2,2nF
3,3pF	33pF	330pF	3,3nF
4,7pF	47pF	470pF	4,7nF
6,8pF/NP0/±0,5pF	68pF	680pF	6,8nF

**SMC-32**

**(1 Flap FL16/10) 16 Values / 2.400 Pieces**  
**Multilayer Ceramic capacitor in chip form**

**Type/Brand:** MLCC / Yageo Europe or alternative

**Temperature:** -55 to +125°C

**Voltage:** 63V

**Tolerance:** ±10%

**Ceramic:** X7R

**Size:** 0805 <22nF  
 1206 >33nF

**Values-Quantities Selection: 105 pcs each**

220pF	1,0nF	4,7nF	22nF
330pF	1,5nF	6,8nF	33nF
470pF	2,2nF	10 nF	47nF
680pF	3,3nF	15 nF	68nF

**SMC-34**

**(1 Flap FL24/10) 24 Values / 2.380 Pieces**  
**Ceramic capacitors in chip form**

**Type/Brand:** B37940..      B37871..      B37949 / Epcos

**Voltage:** 63V-DC

**Temperature:** -55 to +125°C

**Ceramic:** COG / NPO

**Tolerance:** ±5%

**Size:** 0805(B37940), 1206(B37871), 1210(B37949)

**Values-Quantities Selection:**

**Size: 805 / 105pcs each**

10pF	15pF	22pF	33pF	47pF	68pF	
100pF	150pF	220pF	330pF	470pF	680pF	1000pF

**Size: 1206 / 105pcs each**

100pF	150pF	220pF	330pF	470pF	680pF	1000pF
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**Size: 1206 / 45pcs each**

1500pF	2200pF
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**Size : 1210 / 45pcs each**

3300pF	4700pF
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**SMC-35**

(1 Flap FL24/10) 24 Values / 2.310 Pieces  
Ceramic capacitors in chip form

**Type/Brand:** B37941.                      B37872.                      B37951.                      B37954.                      B37957 / Epcos  
**Voltage:**                      63V-DC  
**Tolerance:**                      ±10%(X7R),                      ±20%(Z5U)  
**Temperature:** -55 to +125°C (X7R), -25 to +85°C (Z5U)  
**Size:**                      0805(B37941),                      1206(B37872),                      1210(B37951), 1812(B37954), 2220(B37957)

**Values-Quantities Selection:**

**Size: 0805(X7R) / 105pcs each**

1,0nF	1,5nF	2,2nF	3,3nF	4,7nF	6,8nF
10nF	15nF				

**Size: 1206(X7R) / 105pcs each**

1,0nF	1,5nF	2,2nF	3,3nF	4,7nF	6,8nF
10nF	15nF	22nF	33nF	47nF	68nF
100nF					

**Size: 1210(Z5U) / 220nF 45pcs each**

**Size: 1812(Z5U) / 470nF 30pcs each**

**Size: 2220(Z5U) / 1,0uF 30pcs each**

**SMC-36**

(2 Flap FL24/10) 48 values/ 6.030 pieces  
Ceramic chip capacitors

**Type/Brand:** MLCC

**Size:**                      0603

**Values-Quantities Selection:**

10nF	50V	Y5V 0603	+/-20% Tolerance	60 pieces per value
47nF	50V	Y5V 0603	+/-20% Tolerance	60 pieces per value
10nF	25V	Y5V 0603	+/-20% Tolerance	60 pieces per value
220nF	10V	Y5V 0603	-20+80% Tolerance	60 pieces per value
470nF	16V	Y5V 0603	-20+80% Tolerance	60 pieces per value
1000nF	25V	Y5V 0603	-20+80% Tolerance	60 pieces per value