

Topdiode Manufacturing Company



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Capacitors Part Number System

<u>CL21</u>	<u>F</u>	<u>104</u>	<u>K</u>	<u>0250</u>	<u>0100</u>	<u>B</u>	<u>000</u>
Type	Material Code	Capacitance Code	Tolerance	Rated Voltage	Size Code	Package Code	Suffix Indicate Customer Special Requirement
CL21	F: Plastic Film Cap	pF Code: 1st two digits	K: +/-10%	0250: 250VDC	0100: 10mm pitch	B: Bulk	000: Indicating Standard

CA42 **F: Plastic Film Cap** represent significant figures
 CA45 For CL11, CL21 3rd digit represents multiplier
 CL11 CBB22 CBB81... (number of zeros to follow)
 CBB21 106 = 10uF
 CBB81 **T: Tantalum Cap** 105 = 1uF
 TCS For CA42, CA45
 TCK 104 = 0.1uF
 CT4 100 = 10pF
 CT81 **A: Aluminum Cap** 470 = 47pF
 CT42 For TCS, TCK series 0R1 = 0.1pF
 R47 = 0.47pF

C: +/-0.25pF
 D: +/-0.5pF
 F: +/-1%
 G: +/-2%
 H: +/-2.5%
 J: +/-5%
 K: +/-10%
 L: +/-15%
 M: +/-20%
 Z: +80-20%
 V: +20-10%

For DC Voltage
 0006: 6.3VDC
 0035: 35VDC
 0100: 100VDC
 0630: 630VDC
 1000: 1KVDC
 1600: 1600VDC
 3000: 3000VDC

For AC Voltage:
 A250: 250VAC
 A275: 275VAC
 A300: 300VAC
 A440: 440VAC

Case Size for Chip /SMT CA45/CA45U Chip Tantalum
 000A: A case
 000B: B case

Size for TCS TCK V-chip E-cap
 0405: Size 4x5.4mm
 0605: Size 6.3x5.4mm
 0607: Size 6.3x7.7mm
 1010: Size 10x10.5mm

A: Ammo Taped
R: Tape & Reel

If for cut leads or long leads:
 000: mean standard LL
 035: cut leads to 3.5mm
 040: cut leads to 4mm
 250: 25mm long leads

If for CA45U Low ESR series: Low ESR code in mΩ
 151: mean 150mΩ (0.15Ω)
 202: mean 2000mΩ (2Ω)
 750: mean 75mΩ (0.075Ω)

For ceramic material

- B: X7R
- E: Z5U
- Z: Y5V
- U: Y5U
- P: Y5P
- V: Z5V
- X: X5R
- Y: Y5T
- D: N4700
- N: NPO
- S: SL

Pitch for Radial Cap (excluding CT4)
For CA42, CL11, CL21, CBB21, CBB81

- 0025: pitch size 2.54mm
- 0050: pitch size 5.08mm
- 0275: pitch size 27.5mm

CT4 Radial MLCC Size Code

Carry information for: inside chip size, Lead shape and pitch size.

Eg: BC15 meas inside chip size 0805, C1 Shape, and 5.08mm

For details pls refer to CT4 datasheet

CT4 Size Code (Inside Chip, Lead Shape, Pitch Size)

Eg. : B0b2 mean inside chip 0805 size, B shape Pitch 2.54mm

<u>B</u>	<u>0b</u>	<u>2</u>
A: 0603 chip inside	0a: a shape	2: 2.54mm Pitch
B: 0805 chip inside	0b: b shape	5: 5.08mm pitch
C: 1206 chip inside	C1: C1 shape	3: 3.5mm pitch
D: 1210 chip inside	C3: C3 shape	
E: 1808 chip inside		
F: 1812 chip inside		
G: 2220 chip inside		
H: 2225 chip inside		
I: 3035 chip inside		