## Capacitors Part Number System

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>CL21</td>
<td>F: Plastic Film Cap</td>
<td>pF Code: 1st two digits</td>
<td>+/-10%</td>
<td>0250: 250VDC</td>
<td>0100: 10mm pitch</td>
<td>B: Bulk</td>
<td>000: Indicating Standard</td>
</tr>
<tr>
<td>CA42</td>
<td>F: Plastic Film Cap</td>
<td>represent significant figures</td>
<td>+/-0.25pF</td>
<td>006: 6.3VDC</td>
<td>Cell size for Chip /SMT</td>
<td>A: Ammo Taped</td>
<td>If for cut leads or long leads: 000: mean standard LL</td>
</tr>
<tr>
<td>CA45</td>
<td>F: Plastic Film Cap</td>
<td>3rd digit represents multiplier</td>
<td>+/-0.5pF</td>
<td>0035: 35VDC</td>
<td>Cell size for TCS TCK V-chip E-cap</td>
<td>B: Tape &amp; Reel</td>
<td>If for CA45U Low ESR series: 001: mean 150mΩ (0.15Ω)</td>
</tr>
<tr>
<td>CL11</td>
<td>CBB22 CBB81...</td>
<td>(number of zeros to follow)</td>
<td>+/-1%</td>
<td>0100: 100VDC</td>
<td>Low ESR code in mΩ</td>
<td></td>
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<tr>
<td>CBB21</td>
<td>106 = 10uF</td>
<td></td>
<td>+/-2%</td>
<td>0630: 630VDC</td>
<td>151: mean 150mΩ (0.15Ω)</td>
<td></td>
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</tr>
<tr>
<td>CBB81</td>
<td>105 = 1uF</td>
<td></td>
<td>+/-2.5%</td>
<td>1000: 1KVDC</td>
<td>202: mean 200mΩ (2Ω)</td>
<td></td>
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<tr>
<td>TCS</td>
<td>For CA42, CA45</td>
<td></td>
<td>+/-5%</td>
<td>1600: 1600VDC</td>
<td>750: mean 75mΩ (0.075Ω)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TCK</td>
<td>104 = 0.1uF</td>
<td></td>
<td>+/-10%</td>
<td>3000: 3000VDC</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT81</td>
<td>A: Aluminum Cap</td>
<td>470 = 47pF</td>
<td>+/-15%</td>
<td>6005: Size 6.3x5.4mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CT42</td>
<td>For TCS, TCK series</td>
<td>0R1 = 0.1pF</td>
<td>+/-20%</td>
<td>6007: Size 6.3x7.7mm</td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td>R47 = 0.47pF</td>
<td>+20-10%</td>
<td>1010: Size 10x10.5mm</td>
<td></td>
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</tr>
</tbody>
</table>

### For ceramic material
- B: X7R
- Z: Y5V
- U: Y5U
- P: Y5P
- V: Z5V
- X: X5R
- Y: Y5T
- D: N4700
- N: NPO
- S: SL

### Capacitance Code
- 0104 = 1uF
- 104 = 0.1uF
- 0250 = 10uF
- 100= 10pF
- 470= 47pF
- 0R1= 0.1pF
- R47=0.47pF

### Material Code
- A: Aluminum Cap
- F: Plastic Film Cap
- T: Tantalum Cap

### Tolerance
- K: +/-1%
- L: +/-5%
- C: +/-0.25pF
- D: +/-0.5pF
- M: +/-2%
- G: +/-2%
- H: +/-2.5%
- J: +/-5%

### Rated Voltage
- For DC Voltage: 0006: 6.3VDC
- For AC Voltage: 0250: 250VAC
- For AC Voltage: 0275: 275VAC
- For AC Voltage: A250: 250VAC

### Size Code
- 0017: Size Code 17
- 0015: Size Code 15
- 0025: pitch size 2.54mm
- 0050: pitch size 5.08mm
- 0275: pitch size 27.5mm

### Package Code
- B: Bulk
- A: Ammo Taped
- R: Tape & Reel

### Size for TCS TCK V-chip E-cap
- 0405: Size 4x5.4mm
- 1010: Size 10x10.5mm

### Size for CT4 Axial Lead MLCC
- A250: 250VAC
- A275: 275VAC
- A300: 300VAC
- A440: 440VAC

### Pitch for Radial Cap (excluding CT4)
- 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 means inside chip size 0805, C1 Shape, and 5.08mm

### CT4 Size Code (Inside Chip, Lead Shape, Pitch Size)
- Eq.: 8B02 mean inside chip 0805 size, B shape Pitch 2.54mm

### CT4 Size Code
<table>
<thead>
<tr>
<th>B</th>
<th>0b</th>
<th>Pitch</th>
</tr>
</thead>
<tbody>
<tr>
<td>0a</td>
<td>003 chip inside</td>
<td>2.54mm Pitch</td>
</tr>
<tr>
<td>0b</td>
<td>0805 chip inside</td>
<td>5.08mm pitch</td>
</tr>
<tr>
<td>0c</td>
<td>1296 chip inside</td>
<td>3.5mm pitch</td>
</tr>
<tr>
<td>0d</td>
<td>2101 chip inside</td>
<td>C3 shape</td>
</tr>
<tr>
<td>0e</td>
<td>1808 chip inside</td>
<td>F shape</td>
</tr>
<tr>
<td>0f</td>
<td>1812 chip inside</td>
<td>G shape</td>
</tr>
<tr>
<td>0g</td>
<td>2220 chip inside</td>
<td>H shape</td>
</tr>
<tr>
<td>0h</td>
<td>2225 chip inside</td>
<td>I shape</td>
</tr>
<tr>
<td>0i</td>
<td>3035 chip inside</td>
<td>J shape</td>
</tr>
</tbody>
</table>

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