

# Plastic Film Capacitors

## Part Number System



| Main Series | Sub-Series  | Voltage | Code | Capacitance | Code | Tol. | Code | Pitch | Code | Lead Length      | Code | Packing     | Code |
|-------------|-------------|---------|------|-------------|------|------|------|-------|------|------------------|------|-------------|------|
| JFA         | 0           | 50V     | 1H   | 10pF        | 100  | ±1%  | F    | Axial | 000  | Standard.        | 000  | Ammo        | A    |
| JFB         | 0           | 63V     | 1J   | 100pF       | 101  | ±2%  | G    | 3.5   | 035  | Cut Lead Length  |      | Bulk        | B    |
| JFC         | 0           | 100V    | 2A   | 1000pF      | 102  | ±3%  | E    | 4.0   | 040  |                  |      |             |      |
| JFD         | 0           | 160V    | 2C   | 0.01uF      | 103  | ±5%  | J    | 4.5   | 045  | Long Lead Length |      | Tape & Reel | R    |
| JFE         | 0           | 200V    | 2D   | 0.1uF       | 104  | ±10% | K    | 5.0   | 050  |                  |      |             |      |
| JFF         | 0           | 250V    | 2E   | 1uF         | 105  |      |      | 6.0   | 060  |                  |      |             |      |
| JFG         | A           | 300V    | 2L   | 10uF        | 106  |      |      | 7.0   | 070  |                  |      |             |      |
|             | B           | 360V    | 2N   |             |      |      |      | 8.0   | 080  |                  |      |             |      |
|             | C           | 400V    | 2G   |             |      |      |      | 8.5   | 085  |                  |      |             |      |
|             | D           | 630V    | 2J   |             |      |      |      | 9.0   | 090  |                  |      |             |      |
| JFH         | 0           | 700V    | 2M   |             |      |      |      | 9.5   | 095  |                  |      |             |      |
| JFJ         | 0           | 900V    | 1X   |             |      |      |      | 10.0  | 100  |                  |      |             |      |
|             | 1           | 1,000V  | 3A   |             |      |      |      | 10.5  | 105  |                  |      |             |      |
| JFL         | 0           | 1,250V  | 3B   |             |      |      |      | 11.0  | 110  |                  |      |             |      |
| JFM         | 0           | 1,600V  | 3C   |             |      |      |      | 11.5  | 115  |                  |      |             |      |
| JFN         | 0           | 2,000V  | 3D   |             |      |      |      | 12.0  | 120  |                  |      |             |      |
| JFO         | 0           | 3,000V  | 3F   |             |      |      |      | 12.5  | 125  |                  |      |             |      |
| JFP         | 0           | 150VAC  | D0   |             |      |      |      | 13.0  | 130  |                  |      |             |      |
| JFQ         | 0           | 250VAC  | A3   |             |      |      |      | 15.0  | 150  |                  |      |             |      |
| JFQ         | D           | 275VAC  | A1   |             |      |      |      | 15.5  | 155  |                  |      |             |      |
| JFR         | A           | 300VAC  | A2   |             |      |      |      | 20.0  | 200  |                  |      |             |      |
|             | R           | 305VAC  | A8   |             |      |      |      | 20.5  | 205  |                  |      |             |      |
| JFS         | Refer spec. | 310VAC  | A9   |             |      |      |      | 21.0  | 210  |                  |      |             |      |
|             |             | 320VAC  | K2   |             |      |      |      | 22.5  | 225  |                  |      |             |      |
| JFT         | 0           | 330VAC  | R1   |             |      |      |      | 26.5  | 265  |                  |      |             |      |
| JFV         | 0           | 400VAC  | A4   |             |      |      |      | 27.5  | 275  |                  |      |             |      |
| JFW         | 0           | 440VAC  | A5   |             |      |      |      |       |      |                  |      |             |      |
| JFZ         | 0           | 450VAC  | A6   |             |      |      |      |       |      |                  |      |             |      |
|             |             | 480VAC  | A7   |             |      |      |      |       |      |                  |      |             |      |
|             |             | 500VAC  | H2   |             |      |      |      |       |      |                  |      |             |      |
|             |             | 630VAC  | J2   |             |      |      |      |       |      |                  |      |             |      |

# Radial & Axial Aluminum Electrolytic Capacitors

## Part Number System

| Series | Voltage | Capacitance | Tol | Pitch | Dimension       | Lead Length | Packing | Special Require |
|--------|---------|-------------|-----|-------|-----------------|-------------|---------|-----------------|
| J R A  | 1 E     | 1 0 1       | M   | 0 2 5 | 0 3 5 0 0 3 0 0 | 0 0 0       | B       |                 |

| jb Series | Voltage | Code  | Cap(μF) | Code | Tolerance (%) | Code | Dimension | Code     | Packing | Code | For JRB only          | Code |
|-----------|---------|-------|---------|------|---------------|------|-----------|----------|---------|------|-----------------------|------|
| JRA       | 6.3     | 0J    | 0.1     | 0R1  |               |      | 5x11      | 00500110 | Ammo    | A    |                       |      |
| JRB       | 10      | 1A    | 0.22    | R22  | +10-10        | K    | 6.3x11    | 00630110 | Bulk    | B    |                       |      |
| JRC       | 16      | 1C    | 0.33    | R33  | +15-15        | L    | 12.5x25   | 01250250 |         |      |                       |      |
| JRD       | 20      | 1D    | 0.47    | R47  | +20-20        | M    | 16x25     | 01600250 |         |      |                       |      |
| JRG       | 25      | 1E    | 1       | 010  | +100-0        | P    |           |          |         |      |                       |      |
| JRK       | 35      | 1V    | 2.2     | 2R2  | +30-10        | Q    |           |          |         |      | Higher Ripple Current | HR   |
|           | 40      | 1G    | 3.3     | 3R3  | +20-0         | R    |           |          |         |      |                       |      |
|           | 50      | 1H    | 4.7     | 4R7  | +50-10        | T    |           |          |         |      |                       |      |
|           | 63      | 1J    | 10      | 100  | +75-10        | U    |           |          |         |      |                       |      |
|           | 80      | 1K    | 22      | 220  | +20-10        | V    |           |          |         |      |                       |      |
|           | 100     | 2A    | 33      | 330  | +20-5         | H    |           |          |         |      |                       |      |
|           | 120     | 2B    | 47      | 470  | +30-0         | F    |           |          |         |      |                       |      |
|           | 160     | 2C    | 100     | 101  |               |      |           |          |         |      |                       |      |
|           | 180     | 2K    | 220     | 221  |               |      |           |          |         |      |                       |      |
|           | 200     | 2D    | 270     | 271  |               |      |           |          |         |      |                       |      |
|           | 250     | 2E    | 330     | 331  |               |      |           |          |         |      |                       |      |
|           | 315     | 2F    | 390     | 391  |               |      |           |          |         |      |                       |      |
|           | 330     | 2U    | 470     | 471  |               |      |           |          |         |      |                       |      |
|           | 350     | 2V    | 560     | 561  |               |      |           |          |         |      |                       |      |
|           | 400     | 2G,ZG | 680     | 681  |               |      |           |          |         |      |                       |      |
|           | 420     | 2X    | 1000    | 102  |               |      |           |          |         |      |                       |      |
|           | 450     | 2W    | 2200    | 222  |               |      |           |          |         |      |                       |      |
|           | 500     | 2H    | 3300    | 332  |               |      |           |          |         |      |                       |      |
|           | 550     | 2Y    | 4700    | 472  |               |      |           |          |         |      |                       |      |
|           |         |       | 10000   | 103  |               |      |           |          |         |      |                       |      |
|           |         |       | 22000   | 223  |               |      |           |          |         |      |                       |      |

| Lead Length | Code |
|-------------|------|
| Standard.   | 000  |
| 4.0         | 040  |
| 4.5         | 045  |
| 5.0         | 050  |

| Pitch | Code |
|-------|------|
| Axial | 000  |
| 2.0   | 020  |
| 2.5   | 025  |
| 3.5   | 035  |
| 5.0   | 050  |
| 7.5   | 075  |

# Large Can Aluminum Electrolytic Capacitors

## Part Number System

| Series           |                |             | Voltage        |             | Capacitance          |             |                                     | Tol         | Pitch/Pins       |             |                        | Dimension   |   |   |   |   |   | Special Require |   |  |  |  |  |
|------------------|----------------|-------------|----------------|-------------|----------------------|-------------|-------------------------------------|-------------|------------------|-------------|------------------------|-------------|---|---|---|---|---|-----------------|---|--|--|--|--|
| J                | N              | C           | 2              | V           | 4                    | 7           | 1                                   | M           | 1                | 0           | 0                      | 0           | 3 | 5 | 0 | 0 | 3 | 0               | 0 |  |  |  |  |
| <b>jb Series</b> | <b>Voltage</b> | <b>Code</b> | <b>Cap(μF)</b> | <b>Code</b> | <b>Tolerance (%)</b> | <b>Code</b> | <b>Snap-in</b>                      | <b>Code</b> | <b>Dimension</b> | <b>Code</b> | <b>Special Require</b> | <b>Code</b> |   |   |   |   |   |                 |   |  |  |  |  |
| JNC              | 6.3            | 0J          | 0.1            | 0R1         | +10-10               | K           | 4 Pins                              | VAT         | 12.5x25          | 01250250    |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JNE              | 10             | 1A          | 0.22           | R22         | +15-15               | L           |                                     |             | 35x30            | 03500300    |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JNG              | 16             | 1C          | 0.33           | R33         | +20-20               | M           | For 2 Pins Snap-in, Screw, Lug Type |             | 90x236           | 09002360    |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JNJ              | 20             | 1D          | 0.47           | R47         | +100-0               | P           | Pitch                               | Code        | 101x237          | 10102370    |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JNK              | 25             | 1E          | 1              | 010         | +30-10               | Q           | 10.0                                | 100         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JMJ              | 35             | 1V          | 2.2            | 2R2         | +20-0                | R           | 12.7                                | 127         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JML              | 40             | 1G          | 3.3            | 3R3         | +50-10               | T           | 20.0                                | 200         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JMN              | 50             | 1H          | 4.7            | 4R7         | +75-10               | U           | 22.0                                | 220         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JMQ              | 63             | 1J          | 10             | 100         | +20-10               | V           | 28.6                                | 286         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JSS              | 80             | 1K          | 22             | 220         | +20-5                | H           | 32.0                                | 320         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JSU              | 100            | 2A          | 33             | 330         | +30-0                | F           |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
| JSW              | 120            | 2B          | 47             | 470         |                      |             | For JSW Series                      |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 160            | 2C          | 100            | 101         |                      |             | Pitch                               | Code        |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 180            | 2K          | 220            | 221         |                      |             | Standard                            | 000         |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 200            | 2D          | 270            | 271         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 250            | 2E          | 330            | 331         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 315            | 2F          | 390            | 391         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 330            | 2U          | 470            | 471         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 350            | 2V          | 560            | 561         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 400            | 2G          | 680            | 681         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 420            | 2X          | 1000           | 102         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 450            | 2W          | 2200           | 222         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 500            | 2H          | 3300           | 332         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  | 550            | 2Y          | 4700           | 472         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  |                |             | 10000          | 103         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |
|                  |                |             | 22000          | 223         |                      |             |                                     |             |                  |             |                        |             |   |   |   |   |   |                 |   |  |  |  |  |

## SMD / SMD Polymer - Aluminum Electrolytic Capacitors

### Part Number System

| Series           |   |   | Voltage |      | Capacitance   |      | Tol.          | Case Size |           |        |   |   |   |   |
|------------------|---|---|---------|------|---------------|------|---------------|-----------|-----------|--------|---|---|---|---|
| J                | C | S | 1       | C    | 2             | 2    | 0             | M         | 0         | 5      | 0 | 0 | 5 | 4 |
| <i>jb</i> Series |   |   | Voltage | Code | Cap( $\mu$ F) | Code | Tolerance (%) | Code      | Case Size | Code   |   |   |   |   |
| JCS              |   |   | 4       | 0G   | 0.1           | 0R1  | $\pm 10\%$    | K         | 4x5.4     | 040054 |   |   |   |   |
| JCK              |   |   | 6.3     | 0J   | 0.22          | R22  | $\pm 20\%$    | M         | 6.3x5.4   | 063054 |   |   |   |   |
| JCC              |   |   | 10      | 1A   | 1             | 010  | +30-10        | Q         | 8x10.5    | 080105 |   |   |   |   |
| JCD              |   |   | 16      | 1C   | 2.2           | 2R2  | +50-10        | T         | 10x10.5   | 100105 |   |   |   |   |
| JCE              |   |   | 25      | 1E   | 10            | 100  |               |           | 12.5x13.5 | 125135 |   |   |   |   |
| JCL              |   |   | 35      | 1V   | 22            | 220  |               |           |           |        |   |   |   |   |
| JCN              |   |   | 50      | 1H   | 100           | 101  |               |           |           |        |   |   |   |   |
| JCZ              |   |   | 63      | 1J   | 220           | 221  |               |           |           |        |   |   |   |   |
| JCP              |   |   | 80      | 1K   | 1000          | 102  |               |           |           |        |   |   |   |   |
|                  |   |   | 100     | 2A   | 2200          | 222  |               |           |           |        |   |   |   |   |
|                  |   |   |         |      | 10000         | 103  |               |           |           |        |   |   |   |   |

# Ceramic Capacitors

## Part Number System

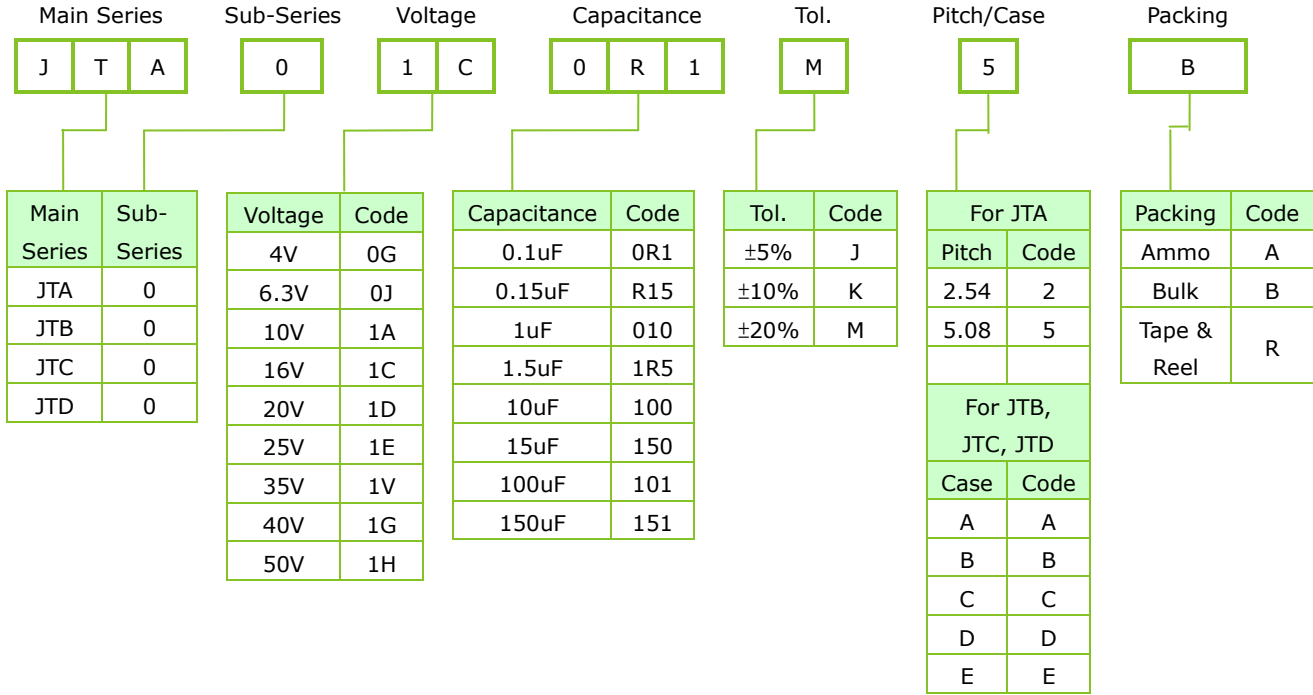
Series      Voltage      Capacitance      Tol.      Pitch      Material/Temp. Char.      Size      Lead Length      Packing

J Y C      3 A      1 0 2      K      B      B      0 6 5      0 0 0      B

| jb<br>Series | For JYA & JYC |      | Capacitance | Code | Tol.    | Code | For JYA & JYC  |               | For JYA & JYC |      | Lead Length     | Code |
|--------------|---------------|------|-------------|------|---------|------|----------------|---------------|---------------|------|-----------------|------|
|              | Voltage       | Code | 10pF        | 100  | ±5%     | J    | Temp. Char.    | Code          | Diameter      | Code | Standard        | 000  |
| JYA          | 1,000V        | 3A   | 15pF        | 150  | ±10%    | K    | Y5P            | B             | 6.0mm         | 060  | Cut Lead Length |      |
| JYC          | 2,000V        | 3D   | 47pF        | 470  | ±20%    | M    | Y5U            | E             | 6.5mm         | 065  | 3.5             | 035  |
| JYM          | 3,000V        | 3F   | 100pF       | 101  | +80-20% | Z    | Y5V            | F             | 7.0mm         | 070  | 4.0             | 040  |
|              | 4,000V        | 3G   | 1000pF      | 102  |         |      | UJ             | J             | 7.5mm         | 075  | 4.5             | 045  |
|              | 5,000V        | 3H   | 0.01uF      | 103  |         |      | SL             | S             | 8.0mm         | 080  | 5.0             | 050  |
|              | 6,000V        | 3I   |             |      |         |      | Y5T            | T             | 8.5mm         | 085  | 6.0             | 060  |
|              | 10KV          | 4A   |             |      |         |      | YL             | Y             | 9.5mm         | 095  |                 |      |
|              | 15KV          | 4C   |             |      |         |      | N750           | 7             | 10.0mm        | 100  |                 |      |
|              | 250VAC        | A3   |             |      |         |      | For JYM        |               | 10.5mm        | 105  |                 |      |
|              | 300VAC        | A2   |             |      |         |      | Material       | Code          | 11.0mm        | 110  |                 |      |
|              | 400VAC        | A4   |             |      |         |      | NPO            | N             | 11.5mm        | 115  |                 |      |
|              | For JYM       |      |             |      |         |      | X7R            | X             | 12.0mm        | 120  |                 |      |
|              | Voltage       | Code |             |      |         |      | Y5V            | F             | ...           | ...  |                 |      |
|              | 25V           | 1E   |             |      |         |      | For JYM Radial |               | Size          | Code |                 |      |
|              | 50V           | 1H   |             |      |         |      |                |               | 0805          | 010  |                 |      |
| 100V         | 2A            |      |             |      |         |      |                | 1206          | 020           |      |                 |      |
|              |               |      |             |      |         |      |                | 1210          | 030           |      |                 |      |
|              |               |      |             |      |         |      |                | 1812          | 040           |      |                 |      |
|              |               |      |             |      |         |      |                | 2225          | 050           |      |                 |      |
|              |               |      |             |      |         |      |                | 3035          | 060           |      |                 |      |
|              |               |      |             |      |         |      |                | For JYM Axial |               |      |                 |      |
|              |               |      |             |      |         |      |                | Size          | Code          |      |                 |      |
|              |               |      |             |      |         |      |                | 15            | 015           |      |                 |      |
|              |               |      |             |      |         |      |                | 16            | 016           |      |                 |      |
|              |               |      |             |      |         |      |                | 17            | 017           |      |                 |      |
|              |               |      |             |      |         |      |                | 19            | 019           |      |                 |      |
|              |               |      |             |      |         |      |                | 20            | 020           |      |                 |      |
|              |               |      |             |      |         |      |                | Packing       |               | Code |                 |      |
|              |               |      |             |      |         |      |                | Ammo          |               | A    |                 |      |
|              |               |      |             |      |         |      |                | Bulk          |               | B    |                 |      |

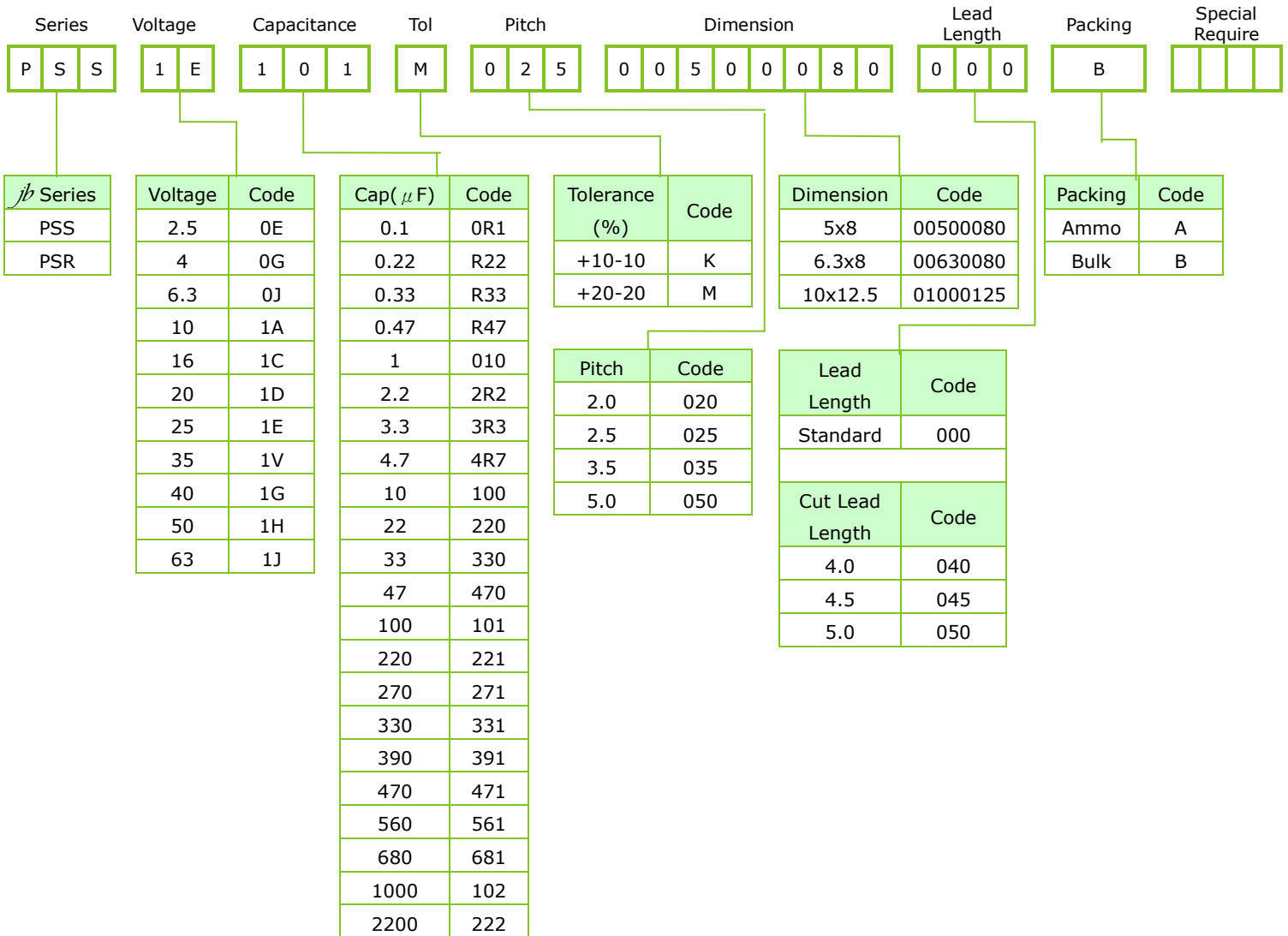
# Tantalum Capacitors

## Part Number System



# Radial Polymer Aluminum Solid Electrolytic Capacitor

## Part Number System



# Super Capacitors

## Part Number System

