

# 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  |                  |      |         | Tape & Reel | R   |
| JFD         | 0           | 160V    | 2C   | 0.01uF      | 103  | ±5%  | J    | 4.5   | 045  |                  |      |         |             |     |
| JFE         | 0           | 200V    | 2D   | 0.1uF       | 104  | ±10% | K    | 5.0   | 050  | Long Lead Length | 3.5  | 035     |             |     |
| JFF         | 0           | 250V    | 2E   | 1uF         | 105  |      |      |       |      |                  | 6.0  | 060     |             | 4.0 |
| JFG         | A           | 360V    | 2N   | 10uF        | 106  |      |      | 7.0   | 070  |                  |      | 4.5     | 045         |     |
|             | B           | 400V    | 2G   |             |      |      |      | 8.0   | 080  |                  | 5.0  | 050     |             |     |
|             | C           | 600V    | 2U   |             |      |      |      | 8.5   | 085  |                  | 6.0  | 060     |             |     |
|             | D           | 630V    | 2J   |             |      |      |      | 9.0   | 090  |                  |      |         |             |     |
| JFH         | 0           | 700V    | 2M   |             |      |      |      | 9.5   | 095  |                  |      |         |             |     |
| JFJ         | 0           | 800V    | 2K   |             |      |      |      | 10.0  | 100  |                  | 25   | 250     |             |     |
|             | 1           | 900V    | 1X   |             |      |      |      | 10.5  | 105  |                  | 30   | 300     |             |     |
| JFL         | 0           | 1,000V  | 3A   |             |      |      |      | 11.0  | 110  |                  | 35   | 350     |             |     |
| JFM         | 0           | 1,100V  | 3Z   |             |      |      |      | 11.5  | 115  |                  |      |         |             |     |
| JFN         | 0           | 1,250V  | 3B   |             |      |      |      | 12.0  | 120  |                  |      |         |             |     |
| JFO         | 0           | 1,300V  | 3M   |             |      |      |      | 12.5  | 125  |                  |      |         |             |     |
| JFP         | 0           | 1,600V  | 3C   |             |      |      |      | 13.0  | 130  |                  |      |         |             |     |
| JFQ         | 0           | 2,000V  | 3D   |             |      |      |      | 15.0  | 150  |                  |      |         |             |     |
| JFQ         | D           | 3,000V  | 3F   |             |      |      |      | 15.5  | 155  |                  |      |         |             |     |
| JFR         | A           | 9,000   | 3X   |             |      |      |      | 20.0  | 200  |                  |      |         |             |     |
|             | R           | 125VAC  | B2   |             |      |      |      | 20.5  | 205  |                  |      |         |             |     |
| JFS         | Refer spec. | 150VAC  | D0   |             |      |      |      | 21.0  | 210  |                  |      |         |             |     |
|             |             | 250VAC  | A3   |             |      |      |      | 22.5  | 225  |                  |      |         |             |     |
|             |             | 275VAC  | A1   |             |      |      |      | 26.5  | 265  |                  |      |         |             |     |
| JFT         | 0           | 300VAC  | A2   |             |      |      | 27.5 | 275   |      |                  |      |         |             |     |
| JFV         | 0           | 305VAC  | A8   |             |      |      |      |       |      |                  |      |         |             |     |
| JFW         | 0           | 310VAC  | A9   |             |      |      |      |       |      |                  |      |         |             |     |
| JFZ         | 0           | 320VAC  | K2   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 330VAC  | R1   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 350VAC  | R2   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 400VAC  | A4   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 440VAC  | A5   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 450VAC  | A6   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 475VAC  | S3   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 480VAC  | A7   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 500VAC  | H2   |             |      |      |      |       |      |                  |      |         |             |     |
|             |             | 630VAC  | J2   |             |      |      |      |       |      |                  |      |         |             |     |

| Special require |      |
|-----------------|------|
| For JFQP        |      |
| P2              | Code |
| 10.2            | 102  |
| 20.3            | 203  |

# 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( $\mu$ F) | 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    |           |          |         |      | Higher Ripple Current | HR   |
| JRK       | 35      | 1V    | 2.2           | 2R2  | +30-10        | Q    |           |          |         |      |                       |      |
|           | 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  |               |      |           |          |         |      |                       |      |

| For Radial |      |
|------------|------|
| Pitch      | Code |
| 2.0        | 020  |
| 2.5        | 025  |
| 3.5        | 035  |
| 5.0        | 050  |
| 7.5        | 075  |

| For Axial |      |
|-----------|------|
| Axial     | Code |
|           | 000  |

| For JAL series  |      |
|-----------------|------|
| Axial Spot Type | Code |
|                 | AST  |

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

# 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 |  |  |  |  |
| jb Series | Voltage | Code | Cap(μF) | Code | Tolerance (%) | Code | Snap-in                             | Code | Dimension  | Code     | Special Require | Code      |   |   |   |   |   |                 |   |  |  |  |  |
| 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  |               |      |                                     |      |            |          |                 |           |   |   |   |   |   |                 |   |  |  |  |  |
|           | 600     | 2S   | 10000   | 103  |               |      |                                     |      |            |          |                 |           |   |   |   |   |   |                 |   |  |  |  |  |
|           |         |      | 22000   | 223  |               |      |                                     |      |            |          |                 |           |   |   |   |   |   |                 |   |  |  |  |  |

## SMD / SMD Polymer - Aluminum Electrolytic Capacitors

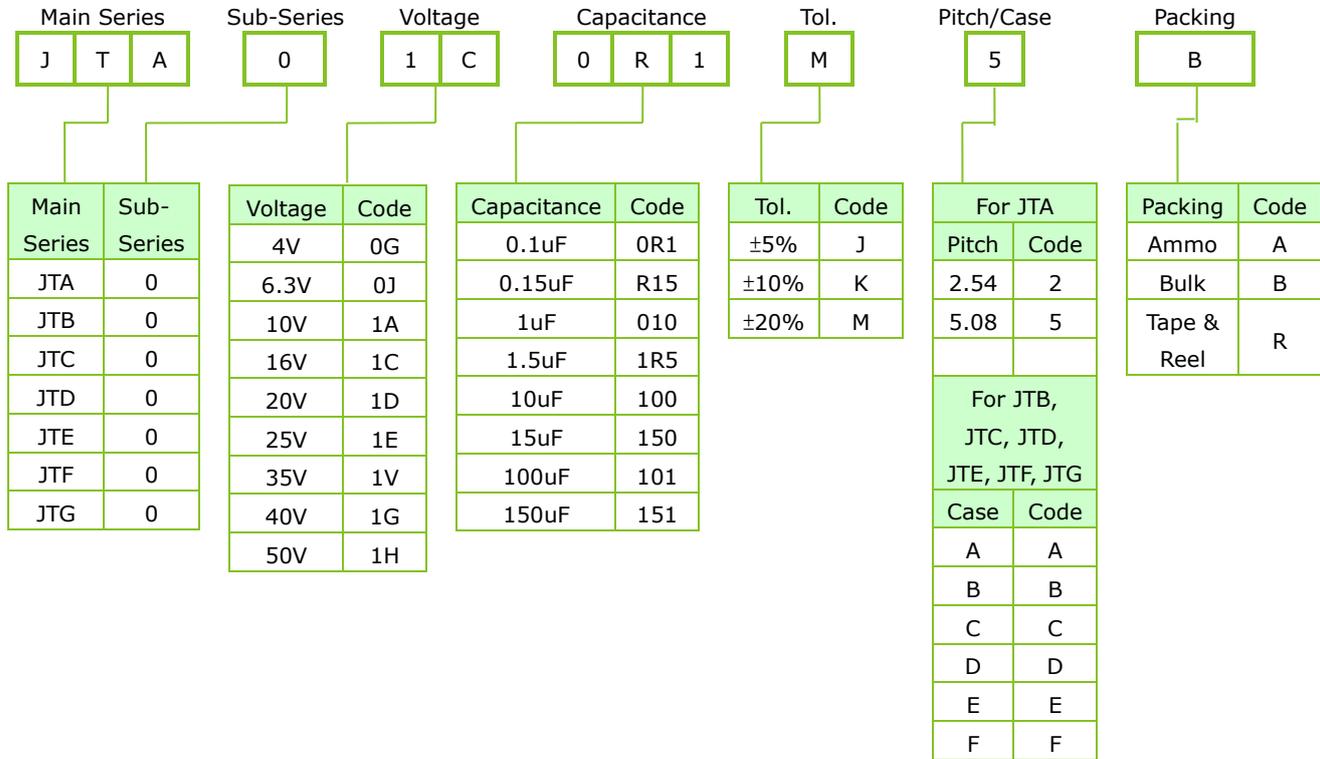
### Part Number System

| 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 |   |   |   |   |
| JCF              | 35      | 1V   | 22            | 220  |               |      |           |        |           |        |   |   |   |   |
| JCL              | 50      | 1H   | 100           | 101  |               |      |           |        |           |        |   |   |   |   |
| JCN              | 63      | 1J   | 220           | 221  |               |      |           |        |           |        |   |   |   |   |
| JCZ              | 80      | 1K   | 1000          | 102  |               |      |           |        |           |        |   |   |   |   |
| JCP              | 100     | 2A   | 2200          | 222  |               |      |           |        |           |        |   |   |   |   |
|                  |         |      | 10000         | 103  |               |      |           |        |           |        |   |   |   |   |



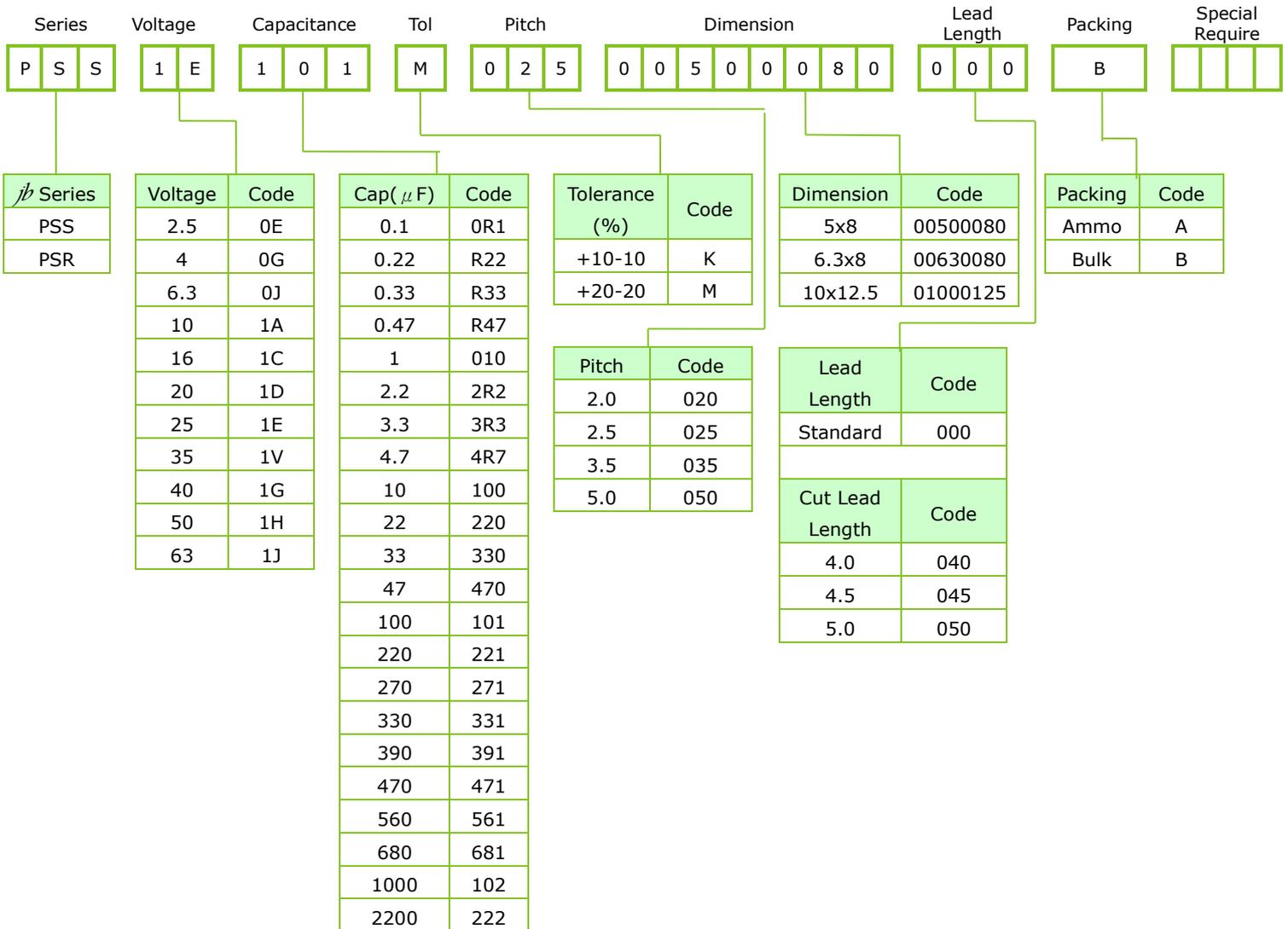
# Tantalum Capacitors

## Part Number System



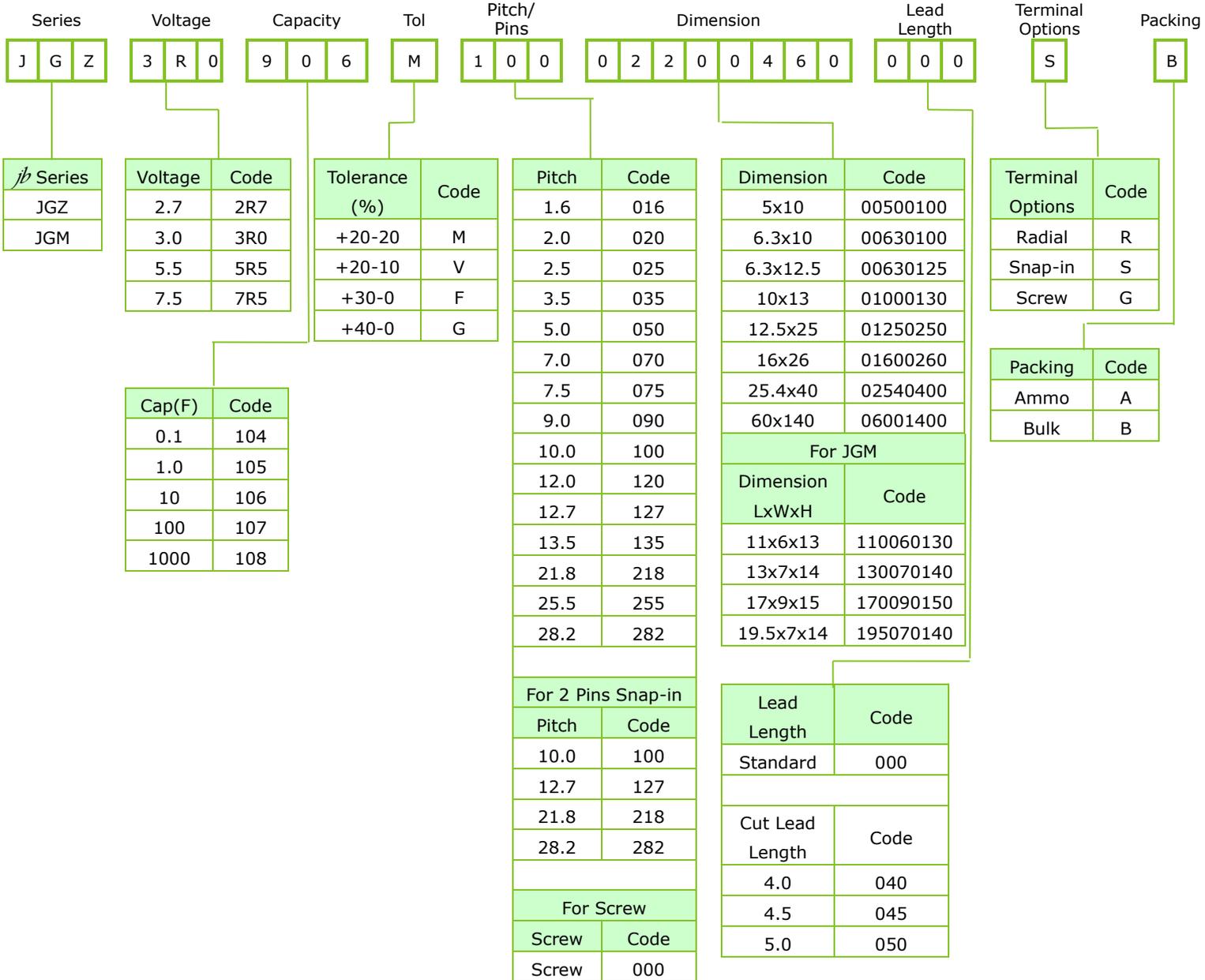
# Radial Polymer Aluminum Solid Electrolytic Capacitor

## Part Number System



# Super Capacitors

## Part Number System



# Zinc Oxide Varistors

## Part Number System

