

# F97 Series

## Resin-Molded Chip, Improved Reliability J-Lead



### FEATURES

- Compliant to the RoHS3 directive 2015/863/EU
- Compliant to AEC-Q200
- Improved Reliability - FR=0.5%/1000hrs
- 100% Surge Current Tested
- SMD J-lead

### APPLICATIONS

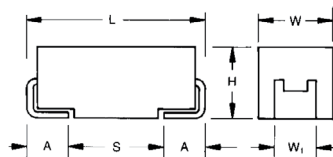
- Automotive Electronics(Engine ECU)
- Industrial Equipment



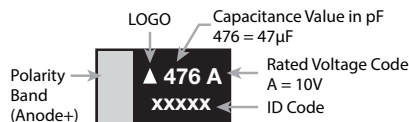
### CASE DIMENSIONS: millimeters (inches)

| Code | EIA Code | EIA Metric | L ± 0.20 (0.008) | W ± 0.20 (0.008)<br>-0.10 (0.004) | H ± 0.20 (0.008)<br>-0.10 (0.004) | W <sub>1</sub> ± 0.20 (0.008) | A ± 0.30 (0.012)<br>-0.20 (0.008) | S Min.       |
|------|----------|------------|------------------|-----------------------------------|-----------------------------------|-------------------------------|-----------------------------------|--------------|
| A    | 1206     | 3216-18    | 3.20 (0.126)     | 1.60 (0.063)                      | 1.60 (0.063)                      | 1.20 (0.047)                  | 0.80 (0.031)                      | 1.10 (0.043) |
| B    | 1210     | 3528-21    | 3.50 (0.138)     | 2.80 (0.110)                      | 1.90 (0.075)                      | 2.20 (0.087)                  | 0.80 (0.031)                      | 1.40 (0.055) |
| C    | 2312     | 6032-28    | 6.00 (0.236)     | 3.20 (0.126)                      | 2.60 (0.102)                      | 2.20 (0.087)                  | 1.30 (0.051)                      | 2.90 (0.114) |
| N    | 2917     | 7343-31    | 7.30 (0.287)     | 4.30 (0.169)                      | 2.90 (0.114)                      | 2.40 (0.094)                  | 1.30 (0.051)                      | 4.40 (0.173) |

W<sub>1</sub> dimension applies to the termination width for a dimensional area only



### A, B, C, N CASE



|      |   |     |   |     |   |
|------|---|-----|---|-----|---|
| 4V   | G | 16V | C | 35V | V |
| 6.3V | J | 20V | D |     |   |
| 10V  | A | 25V | E |     |   |

\*Capacitance code of "P" case products are as shown below.

### HOW TO ORDER

|            |               |                                                                                                                    |                      |                 |                                   |
|------------|---------------|--------------------------------------------------------------------------------------------------------------------|----------------------|-----------------|-----------------------------------|
| <b>F97</b> | <b>1C</b>     | <b>335</b>                                                                                                         | <b>M</b>             | <b>A</b>        |                                   |
| Type       | Rated Voltage | Capacitance Code                                                                                                   | Tolerance            | Case Size       | Packaging                         |
|            |               | pF code: 1st two digits represent significant figures, 3rd digit represents multiplier (number of zeros to follow) | K = ±10%<br>M = ±20% | See table above | See Tape & Reel Packaging Section |

### TECHNICAL SPECIFICATIONS

|                                          |                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Category Temperature Range:</b>       | -55 to +125°C                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Rated Temperature:</b>                | +85°C                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Capacitance Tolerance:</b>            | ±20%, ±10% at 120Hz                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Dissipation Factor:</b>               | Refer to next page                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ESR 100kHz:</b>                       | Refer to next page                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Leakage Current:</b>                  | After 1 minute's application of rated voltage, leakage current at 20°C is not more than 0.01CV or 0.5µA, whichever is greater.<br>After 1 minute's application of rated voltage, leakage current at 85°C is not more than 0.1CV or 5µA, whichever is greater.<br>After 1 minute's application of derated voltage, leakage current at 125°C is not more than 0.125CV or 6.3µA, whichever is greater. |
| <b>Capacitance Change By Temperature</b> | +15% Max. at +125°C<br>+10% Max. at +85°C<br>-10% Max. at -55°C                                                                                                                                                                                                                                                                                                                                     |

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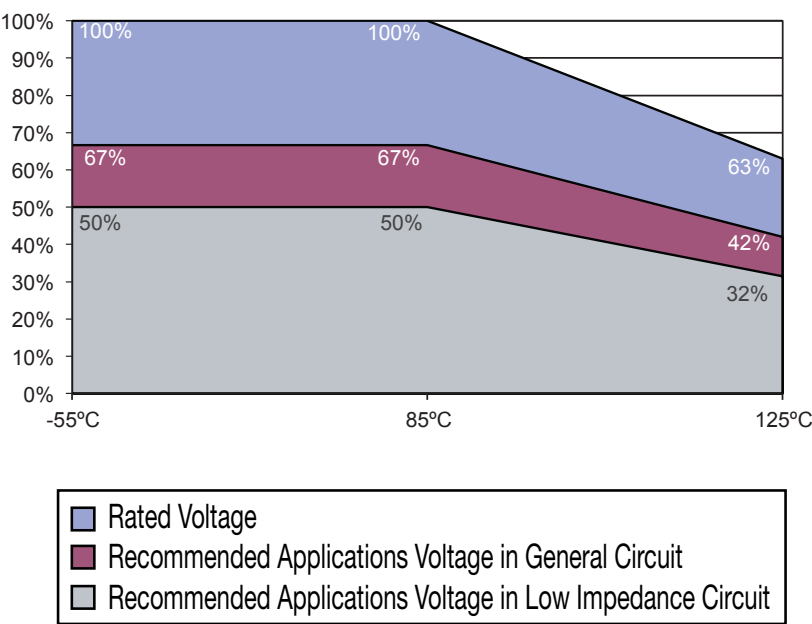


### CAPACITANCE AND RATED VOLTAGE RANGE (LETTER DENOTES CASE SIZE)

| Capacitance |      | Rated Voltage |          |          |          |          |                  |
|-------------|------|---------------|----------|----------|----------|----------|------------------|
| μF          | Code | 6.3V (0J)     | 10V (1A) | 16V (1C) | 20V (1D) | 25V (1E) | 35V (1V)         |
| 0.33        | 334  |               |          |          |          |          | A                |
| 0.47        | 474  |               |          |          |          |          | A                |
| 0.68        | 684  |               |          |          |          | A        | A                |
| 1.0         | 105  |               |          | A        | A        | A        | B <sup>(M)</sup> |
| 1.5         | 155  |               |          |          | A        |          | B                |
| 2.2         | 225  |               | A        | A        | A        | B        | B                |
| 3.3         | 335  | A             | A        | A        | B        | B        | C                |
| 4.7         | 475  |               | A/B      | A/B      | A/B      |          | C                |
| 6.8         | 685  |               | B        | B        | C        | C        | N                |
| 10          | 106  |               | A/B      | A/B/C    | C        | C/N      | N                |
| 15          | 156  | B             | B        |          | N        | N        |                  |
| 22          | 226  | A/B           | A/B      | B/C/N    | C/N      | N        |                  |
| 33          | 336  | A/C           | B/C/N    | B/C/N    |          |          |                  |
| 47          | 476  | B/C           | B/C/N    | C/N      |          |          |                  |
| 68          | 686  |               | N        |          |          |          |                  |
| 100         | 107  |               | C        |          |          |          |                  |
| 150         | 157  | C             |          |          |          |          |                  |

Released ratings <sup>(M tolerance only)</sup>  
Please contact to your local KYOCERA AVX sales office when these series are being designed in your application.

Voltage vs Temperature Rating



# F97 Series

## Resin-Molded Chip, Improved Reliability J-Lead



### RATINGS & PART NUMBER REFERENCE

| Part Number | Case Size | Capacitance (μF) | Rated Voltage (V) | DCL (μA) | DF @ 120Hz (%) | ESR @ 100kHz (Ω) | 100kHz RMS Current (mA) |      |       | *1 ΔC/C (%) | MSL |
|-------------|-----------|------------------|-------------------|----------|----------------|------------------|-------------------------|------|-------|-------------|-----|
|             |           |                  |                   |          |                |                  | 25°C                    | 85°C | 125°C |             |     |
| 6.3 Volt    |           |                  |                   |          |                |                  |                         |      |       |             |     |
| F970J335#AA | A         | 3.3              | 6.3               | 0.5      | 4              | 4.5              | 129                     | 116  | 52    | *           | 3   |
| F970J156#BA | B         | 15               | 6.3               | 0.9      | 6              | 2.0              | 206                     | 186  | 82    | *           | 3   |
| F970J226#AA | A         | 22               | 6.3               | 1.4      | 12             | 2.5              | 173                     | 156  | 69    | *           | 3   |
| F970J226#BA | B         | 22               | 6.3               | 1.4      | 8              | 1.9              | 212                     | 190  | 85    | *           | 3   |
| F970J336#AA | A         | 33               | 6.3               | 2.1      | 12             | 2.5              | 173                     | 156  | 69    | *           | 3   |
| F970J336#CC | C         | 33               | 6.3               | 2.1      | 6              | 1.1              | 316                     | 285  | 126   | *           | 3   |
| F970J476#BA | B         | 47               | 6.3               | 3.0      | 8              | 1.0              | 292                     | 262  | 117   | *           | 3   |
| F970J476#CC | C         | 47               | 6.3               | 3.0      | 6              | 0.9              | 350                     | 315  | 140   | *           | 3   |
| F970J157#CC | C         | 150              | 6.3               | 9.5      | 12             | 0.7              | 396                     | 357  | 159   | *           | 3   |
| 10 Volt     |           |                  |                   |          |                |                  |                         |      |       |             |     |
| F971A225#AA | A         | 2.2              | 10                | 0.5      | 4              | 5.0              | 122                     | 110  | 49    | *           | 3   |
| F971A335#AA | A         | 3.3              | 10                | 0.5      | 4              | 4.5              | 129                     | 116  | 52    | *           | 3   |
| F971A475#AA | A         | 4.7              | 10                | 0.5      | 6              | 4.0              | 137                     | 123  | 55    | *           | 3   |
| F971A475#BA | B         | 4.7              | 10                | 0.5      | 6              | 2.8              | 174                     | 157  | 70    | *           | 3   |
| F971A685#BA | B         | 6.8              | 10                | 0.7      | 6              | 2.5              | 184                     | 166  | 74    | *           | 3   |
| F971A106#AA | A         | 10               | 10                | 1.0      | 6              | 3.0              | 158                     | 142  | 63    | *           | 3   |
| F971A106#BA | B         | 10               | 10                | 1.0      | 6              | 2.0              | 206                     | 186  | 82    | *           | 3   |
| F971A156#BA | B         | 15               | 10                | 1.5      | 6              | 2.0              | 206                     | 186  | 82    | *           | 3   |
| F971A226#AA | A         | 22               | 10                | 2.2      | 15             | 3.0              | 158                     | 142  | 63    | *           | 3   |
| F971A226#BA | B         | 22               | 10                | 2.2      | 8              | 1.9              | 212                     | 190  | 85    | *           | 3   |
| F971A336#BA | B         | 33               | 10                | 3.3      | 8              | 1.9              | 212                     | 190  | 85    | *           | 3   |
| F971A336#CC | C         | 33               | 10                | 3.3      | 6              | 1.1              | 316                     | 285  | 126   | *           | 3   |
| F971A336#NC | N         | 33               | 10                | 3.3      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| F971A476#BA | B         | 47               | 10                | 4.7      | 10             | 1.0              | 292                     | 262  | 117   | *           | 3   |
| F971A476#CC | C         | 47               | 10                | 4.7      | 8              | 0.9              | 350                     | 315  | 140   | *           | 3   |
| F971A476#NC | N         | 47               | 10                | 4.7      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| F971A686#NC | N         | 68               | 10                | 6.8      | 6              | 0.6              | 500                     | 450  | 200   | *           | 3   |
| F971A107#CC | C         | 100              | 10                | 10.0     | 10             | 0.7              | 396                     | 357  | 159   | *           | 3   |
| 16 Volt     |           |                  |                   |          |                |                  |                         |      |       |             |     |
| F971C105#AA | A         | 1                | 16                | 0.5      | 4              | 7.5              | 100                     | 90   | 40    | *           | 3   |
| F971C225#AA | A         | 2.2              | 16                | 0.5      | 4              | 5.0              | 122                     | 110  | 49    | *           | 3   |
| F971C335#AA | A         | 3.3              | 16                | 0.5      | 4              | 4.5              | 129                     | 116  | 52    | *           | 3   |
| F971C475#AA | A         | 4.7              | 16                | 0.8      | 8              | 4.0              | 137                     | 123  | 55    | *           | 3   |
| F971C475#BA | B         | 4.7              | 16                | 0.8      | 6              | 2.8              | 174                     | 157  | 70    | *           | 3   |
| F971C685#BA | B         | 6.8              | 16                | 1.1      | 6              | 2.5              | 184                     | 166  | 74    | *           | 3   |
| F971C106#AA | A         | 10               | 16                | 1.6      | 8              | 3.5              | 146                     | 132  | 59    | *           | 3   |
| F971C106#BA | B         | 10               | 16                | 1.6      | 6              | 2.1              | 201                     | 181  | 80    | *           | 3   |
| F971C106#CC | C         | 10               | 16                | 1.6      | 6              | 1.5              | 271                     | 244  | 108   | *           | 3   |
| F971C226#BA | B         | 22               | 16                | 3.5      | 8              | 1.9              | 212                     | 190  | 85    | *           | 3   |
| F971C226#CC | C         | 22               | 16                | 3.5      | 8              | 1.1              | 316                     | 285  | 126   | *           | 3   |
| F971C226#NC | N         | 22               | 16                | 3.5      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| F971C336#BA | B         | 33               | 16                | 5.3      | 10             | 2.1              | 201                     | 181  | 80    | *           | 3   |
| F971C336#CC | C         | 33               | 16                | 5.3      | 8              | 1.1              | 316                     | 285  | 126   | *           | 3   |
| F971C336#NC | N         | 33               | 16                | 5.3      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| F971C476#CC | C         | 47               | 16                | 7.5      | 10             | 1.1              | 316                     | 285  | 126   | *           | 3   |
| F971C476#NC | N         | 47               | 16                | 7.5      | 8              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| 20 Volt     |           |                  |                   |          |                |                  |                         |      |       |             |     |
| F971D105#AA | A         | 1                | 20                | 0.5      | 4              | 7.5              | 100                     | 90   | 40    | *           | 3   |
| F971D155#AA | A         | 1.5              | 20                | 0.5      | 4              | 6.7              | 106                     | 95   | 42    | *           | 3   |
| F971D225#AA | A         | 2.2              | 20                | 0.5      | 6              | 6.3              | 109                     | 98   | 44    | *           | 3   |
| F971D335#BA | B         | 3.3              | 20                | 0.7      | 4              | 3.1              | 166                     | 146  | 66    | *           | 3   |
| F971D475#AA | A         | 4.7              | 20                | 0.9      | 8              | 4.0              | 137                     | 123  | 55    | *           | 3   |
| F971D475#BA | B         | 4.7              | 20                | 0.9      | 6              | 2.8              | 174                     | 157  | 70    | *           | 3   |
| F971D685#CC | C         | 6.8              | 20                | 1.4      | 6              | 1.8              | 247                     | 222  | 99    | *           | 3   |
| F971D106#CC | C         | 10               | 20                | 2.0      | 6              | 1.5              | 271                     | 244  | 108   | *           | 3   |
| F971D156#NC | N         | 15               | 20                | 3.0      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| F971D226#CC | C         | 22               | 20                | 4.4      | 8              | 1.1              | 316                     | 285  | 126   | *           | 3   |
| F971D226#NC | N         | 22               | 20                | 4.4      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| 25 Volt     |           |                  |                   |          |                |                  |                         |      |       |             |     |
| F971E684#AA | A         | 0.68             | 25                | 0.5      | 4              | 7.6              | 99                      | 89   | 40    | *           | 3   |
| F971E105#AA | A         | 1                | 25                | 0.5      | 4              | 7.5              | 100                     | 90   | 40    | *           | 3   |
| F971E225#BA | B         | 2.2              | 25                | 0.6      | 4              | 3.8              | 150                     | 135  | 60    | *           | 3   |
| F971E335#BA | B         | 3.3              | 25                | 0.8      | 4              | 3.5              | 156                     | 140  | 62    | *           | 3   |
| F971E685#CC | C         | 6.8              | 25                | 1.7      | 6              | 1.8              | 247                     | 222  | 99    | *           | 3   |
| F971E106#NC | N         | 10               | 25                | 2.5      | 6              | 1.0              | 387                     | 349  | 155   | *           | 3   |
| F971E156#NC | N         | 15               | 25                | 3.8      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |
| F971E226#NC | N         | 22               | 25                | 5.5      | 6              | 0.7              | 463                     | 417  | 185   | *           | 3   |

# F97 Series

## Resin-Molded Chip, Improved Reliability J-Lead



### RATINGS & PART NUMBER REFERENCE

| Part Number | Case Size | Capacitance<br>(μF) | Rated<br>Voltage (V) | DCL<br>(μA) | DF @<br>120Hz (%) | ESR @<br>100kHz (Ω) | 100kHz RMS Current (mA) |      |       | *1 ΔC/C<br>(%) | MSL |
|-------------|-----------|---------------------|----------------------|-------------|-------------------|---------------------|-------------------------|------|-------|----------------|-----|
|             |           |                     |                      |             |                   |                     | 25°C                    | 85°C | 125°C |                |     |
| 35 Volt     |           |                     |                      |             |                   |                     |                         |      |       |                |     |
| F971V334#AA | A         | 0.33                | 35                   | 0.5         | 4                 | 12.0                | 79                      | 71   | 32    | *              | 3   |
| F971V474#AA | A         | 0.47                | 35                   | 0.5         | 4                 | 10.0                | 87                      | 78   | 35    | *              | 3   |
| F971V684#AA | A         | 0.68                | 35                   | 0.5         | 4                 | 7.6                 | 99                      | 89   | 40    | *              | 3   |
| F971V105MBA | B         | 1                   | 35                   | 0.5         | 4                 | 4.0                 | 146                     | 131  | 58    | *              | 3   |
| F971V155#BA | B         | 1.5                 | 35                   | 0.5         | 4                 | 4.0                 | 146                     | 131  | 58    | *              | 3   |
| F971V225#BA | B         | 2.2                 | 35                   | 0.8         | 4                 | 3.8                 | 150                     | 135  | 60    | *              | 3   |
| F971V335#CC | C         | 3.3                 | 35                   | 1.2         | 4                 | 2.0                 | 235                     | 211  | 94    | *              | 3   |
| F971V475#CC | C         | 4.7                 | 35                   | 1.6         | 6                 | 1.8                 | 247                     | 222  | 99    | *              | 3   |
| F971V685#NC | N         | 6.8                 | 35                   | 2.4         | 6                 | 1.0                 | 387                     | 349  | 155   | *              | 3   |
| F971V106#NC | N         | 10                  | 35                   | 3.5         | 6                 | 1.0                 | 387                     | 349  | 155   | *              | 3   |

\*1: ΔC/C Marked "\*"

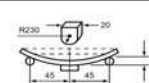
#: "M" for ±20% tolerance, "K" for ±10% tolerance.

Moisture Sensitivity Level (MSL) is defined according to J-STD-020.

| Item                      | All Case (%) |
|---------------------------|--------------|
| Damp Heat                 | ±10          |
| Temperature cycles        | ±5           |
| Resistance soldering heat | ±5           |
| Surge                     | ±5           |
| Endurance                 | ±10          |
| Load Humidity             | ±10          |

### QUALIFICATION TABLE

| TEST                                    | F97 series (Temperature range -55°C to +125°C)                                                                                                                                                                                                                                                                                                                                                                   |  |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                                         | Condition                                                                                                                                                                                                                                                                                                                                                                                                        |  |
| <b>Damp Heat<br/>(Steady State)</b>     | At 85°C, 85% R.H., 1000 hours (No voltage applied)<br>Capacitance Change ..... Refer to the table above (*1)<br>Dissipation Factor ..... Initial specified value or less<br>Leakage Current ..... 125% or less than the initial specified value                                                                                                                                                                  |  |
| <b>Load Humidity</b>                    | After 1000 hour's application of rated voltage in series with a 33Ω resistor at 85°C, 85% R.H., capacitors meet the characteristics requirements table below.<br>Capacitance Change ..... Refer to the table above (*1)<br>Dissipation Factor ..... 120% or less than the initial specified value<br>Leakage Current ..... 200% of less than the initial specified value                                         |  |
| <b>Temperature Cycles</b>               | At -55°C / +125°C, 30 minutes each, 1000 cycles<br>Capacitance Change ..... Refer to the table above (*1)<br>Dissipation Factor ..... Initial specified value or less<br>Leakage Current ..... Initial specified value or less                                                                                                                                                                                   |  |
| <b>Resistance to<br/>Soldering Heat</b> | 10 seconds reflow at 260°C, 5 seconds immersion at 260°C.<br>Capacitance Change ..... Refer to the table above (*1)<br>Dissipation Factor ..... Initial specified value or less<br>Leakage Current ..... Initial specified value or less                                                                                                                                                                         |  |
| <b>Solderability</b>                    | After immersing capacitors completely into a solder pot at 245°C for 2 to 3 seconds, more than 3/4 of their electrode area shall remain covered with new solder.                                                                                                                                                                                                                                                 |  |
| <b>Surge</b>                            | After application of surge voltage in series with a 33Ω resistor at the rate of 30 seconds ON, 30 seconds OFF, for 1000 successive test cycles at 85°C, capacitors shall meet the characteristic requirements in the table above.<br>Capacitance Change ..... Refer to the table above (*1)<br>Dissipation Factor ..... Initial specified value or less<br>Leakage Current ..... Initial specified value or less |  |
| <b>Endurance</b>                        | After 2000 hours' application of rated voltage in series with a 3Ω resistor at 85°C, or derated voltage in series with a 3Ω resistor at 125°C, capacitors shall meet the characteristic requirements in the table above.<br>Capacitance Change ..... Refer to the table above (*1)<br>Dissipation Factor ..... Initial specified value or less<br>Leakage Current ..... Initial specified value or less          |  |
| <b>Shear Test</b>                       | After applying the pressure load of 17.7N for 60 seconds horizontally to the center of capacitor side body which has no electrode and has been soldered beforehand on a substrate, there shall be found neither exfoliation nor its sign at the terminal electrode                                                                                                                                               |  |
| <b>Terminal Strength</b>                | Keeping a capacitor surface-mounted on a substrate upside down and supporting the substrate at both of the opposite bottom points 45mm apart from the center of capacitor, the pressure strength is applied with a specified jig at the center of the substrate so that substrate may bend by 1mm as illustrated. Then, there shall be found no remarkable abnormality on the capacitor terminals.               |  |
| <b>Failure Rate</b>                     | 0.5% per 1000 hours at 85°C, $V_R$ with 0.1Ω/V series impedance, 60% confidence level.                                                                                                                                                                                                                                                                                                                           |  |



The Important Information/Disclaimer is incorporated in the catalog where these specifications came from or available online at [www.kyocera-avx.com/disclaimer/](http://www.kyocera-avx.com/disclaimer/) by reference and should be reviewed in full before placing any order.

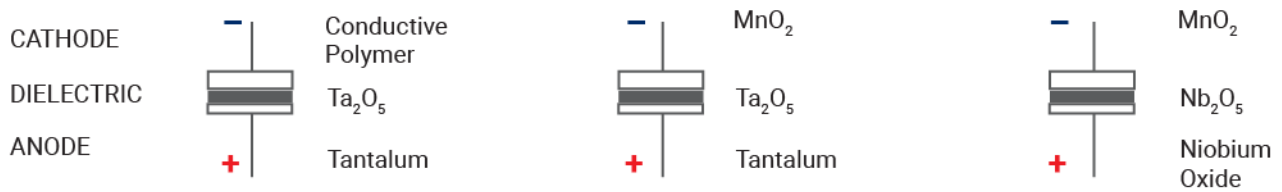
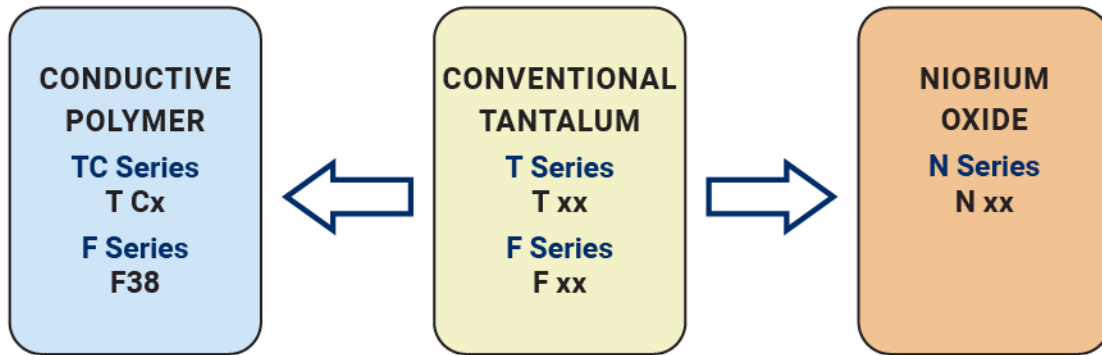
TDS-PTNO-0014 | Rev 1

— POLYMER, TANTALUM AND NIOBIUM OXIDE CAPACITORS —

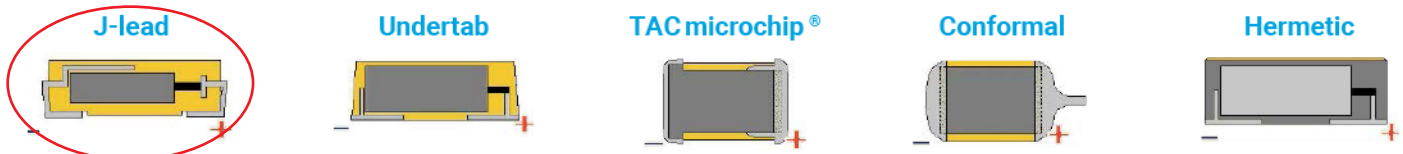
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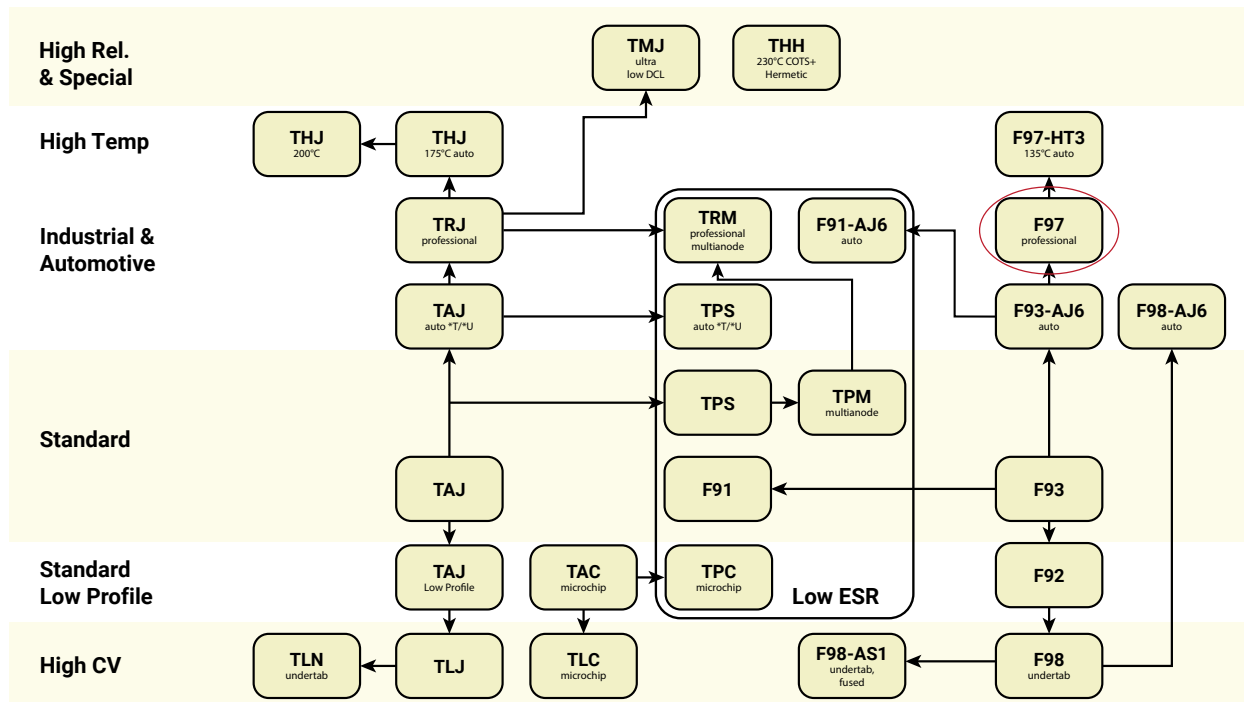
## SOLID ELECTROLYTIC CAPACITOR ROADMAP



## FIVE CAPACITOR CONSTRUCTION STYLES



## SERIES LINE UP : CONVENTIONAL SMD MnO<sub>2</sub>



# Mouser Electronics

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## KYOCERA AVX:

[F970J336MCA](#) [F971C336MCC](#) [F971D475MBA](#) [F971C226KCC](#) [F971D225KAA](#) [F971E225KBA](#) [F970J225MAA](#)  
[F971V684MAA](#) [F971A336KBA](#) [F971C106MBA](#) [F971V225MCC](#) [F971A155MAA](#) [F971V475KCC](#) [F970G686MCC](#)  
[F971A226MBA](#) [F971D156MNC](#) [F971V334MAA](#) [F971A686KNC](#) [F970J686MNA](#) [F971E335MBA](#) [F971C106MCC](#)  
[F971C105MAA](#) [F970G107MNC](#) [F970J107KNC](#) [F971C106KBA](#) [F971D684MAA](#) [F971C475MAA](#) [F971A156MCC](#)  
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[F971E684MAA](#) [F971A335KAA](#) [F970G475MAA](#) [F971A336MBA](#) [F970J686MNC](#) [F970J336MCC](#) [F971C336MBA](#)  
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[F970G156MBA](#) [F970J107MNA](#) [F971D335KBA](#) [F970J107MNC](#) [F971E105KAA](#) [F970J476MBA](#) [F971C336MNC](#)  
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[F970G106MBA](#) [F971A226MAA](#) [F971D226MCC](#) [F971E106MCC](#) [F971A685KBA](#) [F971V225KBA](#) [F970G686MNC](#)  
[F971C475MBA](#) [F970J685KAA](#) [F971V225MBA](#) [F970J476MCA](#) [F971A106MAA](#) [F971E106KCC](#) [F970J476KCC](#)  
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