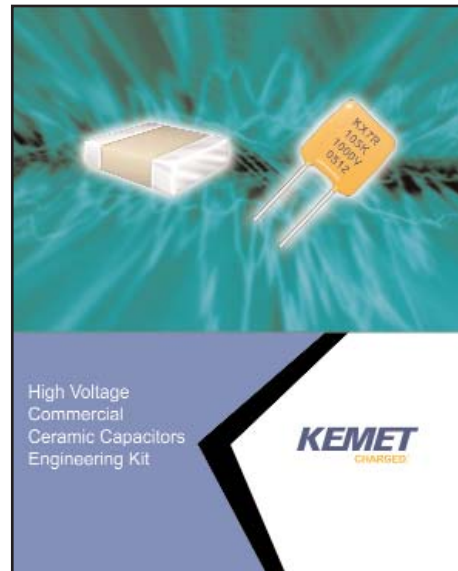


KEMET

CHARGED.™

Design a KEMET Ceramic Capacitor into Your Next Project



KEMET currently offers seven distinct Ceramic Engineering Kits which are designed to provide active solutions to the passive component requirements characterized in professional OEM engineering design, prototyping, university lab research, and by hobbyist users. Each kit contains a selection of popular capacitor values and a KEMET catalog which outlines drawings, dimensions, marking format, recommended mounting pad dimensions, and ordering information.

Our current ceramic engineering kit offering includes the following categories:

- CER ENG KIT 03 - 0603 Case Size SMT Capacitors
- CER ENG KIT 04 - 0805 Case Size SMT Capacitors
- CER ENG KIT 05 - 1206 Case Size SMT Capacitors
- CER ENG KIT 06 - 0402 Case Size SMT Capacitors
- NEW** CER ENG KIT 07 - High Capacitance Value SMT Capacitors
- NEW** CER ENG KIT 08 - High Voltage Capacitors (Includes both SMT and leaded components)
- NEW** CER ENG KIT 09 - Open Mode/Fail Safe SMT Capacitors

Each of our Ceramic Engineering Kits contains an assortment of 10-20 popular capacitor values. Quantities of each part type will range from 20 to 100pcs based upon kit type. Each part type will be provided either in bulk or by carrier tape and will be clearly labeled with a KEMET ordering code for ease of identification. Please refer to the appended tables for a complete listing of part types and quantities offered with each of our engineering kits.

Experience the quality and performance of KEMET ceramic capacitors. Order one of KEMET's Ceramic Engineering Kits and see for yourself how well our quality components perform in even the most challenging applications.

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Kit Part Number: CER ENG KIT 03
0603 (EIA) Case Size SMT Capacitors - 100 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Capacitance pF | Tolerance | Voltage | Dielectric |
|-------------------|---------------|----------------|-----------|---------|------------|
| C0603C159C5GAC | 0603 | 1.5 | ±0.25pF | 50 | C0G |
| C0603C100C5GAC | 0603 | 10 | ±0.25pF | 50 | C0G |
| C0603C220C5GAC | 0603 | 22 | ±0.25pF | 50 | C0G |
| C0603C330D5GAC | 0603 | 33 | ±0.5pF | 50 | C0G |
| C0603C470D5GAC | 0603 | 47 | ±0.5pF | 50 | C0G |
| C0603C101J5GAC | 0603 | 100 | ±5% | 50 | C0G |
| C0603C221J5GAC | 0603 | 220 | ±5% | 50 | C0G |
| C0603C331J5GAC | 0603 | 330 | ±5% | 50 | C0G |
| C0603C471J5GAC | 0603 | 470 | ±5% | 50 | C0G |
| C0603C102K5RAC | 0603 | 1000 | ±10% | 50 | X7R |
| C0603C222K5RAC | 0603 | 2200 | ±10% | 50 | X7R |
| C0603C332K5RAC | 0603 | 3300 | ±10% | 50 | X7R |
| C0603C472K5RAC | 0603 | 4700 | ±10% | 50 | X7R |
| C0603C103K5RAC | 0603 | 10,000 | ±10% | 50 | X7R |
| C0603C223K5RAC | 0603 | 22,000 | ±10% | 50 | X7R |
| C0603C333K5RAC | 0603 | 33,000 | ±10% | 50 | X7R |
| C0603C473K5RAC | 0603 | 47,000 | ±10% | 50 | X7R |
| C0603C104K5RAC | 0603 | 100,000 | ±10% | 50 | X7R |
| C0603C224K4RAC | 0603 | 220,000 | ±10% | 16 | X7R |
| C0603C105K8PAC | 0603 | 1,000,000 | ±10% | 10 | X5R |

Kit Part Number: CER ENG KIT 04
0805 (EIA) Case Size SMT Capacitors - 100 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Capacitance pF | Tolerance | Voltage | Dielectric |
|-------------------|---------------|----------------|-----------|---------|------------|
| C0805C100C2GAC | 0805 | 10 | ±0.25pF | 200 | C0G |
| C0805C220C1GAC | 0805 | 22 | ±0.25pF | 100 | C0G |
| C0805C470D1GAC | 0805 | 47 | ±0.5pF | 100 | C0G |
| C0805C101J1GAC | 0805 | 100 | ±5% | 100 | C0G |
| C0805C221J1GAC | 0805 | 220 | ±5% | 100 | C0G |
| C0805C471J1GAC | 0805 | 470 | ±5% | 100 | C0G |
| C0805C102J5GAC | 0805 | 1000 | ±5% | 50 | C0G |
| C0805C222K1RAC | 0805 | 2200 | ±10% | 100 | X7R |
| C0805C472K1RAC | 0805 | 4700 | ±10% | 100 | X7R |
| C0805C103K1RAC | 0805 | 10,000 | ±10% | 100 | X7R |
| C0805C223K1RAC | 0805 | 22,000 | ±10% | 100 | X7R |
| C0805C333K1RAC | 0805 | 33,000 | ±10% | 100 | X7R |
| C0805C473K1RAC | 0805 | 47,000 | ±10% | 100 | X7R |
| C0805C104K5RAC | 0805 | 100,000 | ±10% | 50 | X7R |
| C0805C224K3RAC | 0805 | 220,000 | ±10% | 25 | X7R |
| C0805C474K3RAC | 0805 | 470,000 | ±10% | 25 | X7R |
| C0805C105K4RAC | 0805 | 1,000,000 | ±10% | 16 | X7R |
| C0805C225K8PAC | 0805 | 2,200,000 | ±10% | 10 | X5R |
| C0805C475K8PAC | 0805 | 4,700,000 | ±10% | 10 | X5R |
| C0805C106K9PAC | 0805 | 10,000,000 | ±10% | 6.3 | X5R |

Ceramic Engineering Kits

Kit Part Number: CER ENG KIT 05
1206 (EIA) Case Size SMT Capacitors - 100 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Capacitance pF | Tolerance | Voltage | Dielectric |
|-------------------|---------------|----------------|-----------|---------|------------|
| C1206C100C2GAC | 1206 | 10 | ±0.25pF | 200 | C0G |
| C1206C220C2GAC | 1206 | 22 | ±0.25pF | 200 | C0G |
| C1206C330D2GAC | 1206 | 33 | ±0.5pF | 200 | C0G |
| C1206C470D2GAC | 1206 | 47 | ±0.5pF | 200 | C0G |
| C1206C101J1GAC | 1206 | 100 | ±5% | 100 | C0G |
| C1206C221J1GAC | 1206 | 220 | ±5% | 100 | C0G |
| C1206C471J1GAC | 1206 | 470 | ±5% | 100 | C0G |
| C1206C102J1GAC | 1206 | 1000 | ±5% | 100 | C0G |
| C1206C222J1GAC | 1206 | 2200 | ±5% | 100 | C0G |
| C1206C472J5GAC | 1206 | 4700 | ±5% | 50 | C0G |
| C1206C103K5RAC | 1206 | 10,000 | ±10% | 50 | X7R |
| C1206C223K5RAC | 1206 | 22,000 | ±10% | 50 | X7R |
| C1206C473K5RAC | 1206 | 47,000 | ±10% | 50 | X7R |
| C1206C104K5RAC | 1206 | 100,000 | ±10% | 50 | X7R |
| C1206C224K5RAC | 1206 | 220,000 | ±10% | 50 | X7R |
| C1206C474K3RAC | 1206 | 470,000 | ±10% | 25 | X7R |
| C1206C105K3RAC | 1206 | 1,000,000 | ±10% | 25 | X7R |
| C1206C225K4RAC | 1206 | 2,200,000 | ±10% | 16 | X7R |
| C1206C475K3PAC | 1206 | 4,700,000 | ±10% | 25 | X5R |
| C1206C106K4PAC | 1206 | 10,000,000 | ±10% | 16 | X5R |

Kit Part Number: CER ENG KIT 06
0402 (EIA) Case Size SMT Capacitors - 100 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Capacitance pF | Tolerance | Voltage | Dielectric |
|-------------------|---------------|----------------|-----------|---------|------------|
| C0402C109C5GAC | 0402 | 1.0 | ±0.25pF | 50 | C0G |
| C0402C229C5GAC | 0402 | 2.2 | ±0.25pF | 50 | C0G |
| C0402C339C5GAC | 0402 | 3.3 | ±0.25pF | 50 | C0G |
| C0402C100C5GAC | 0402 | 10 | ±0.25pF | 50 | C0G |
| C0402C150C5GAC | 0402 | 15 | ±0.25pF | 50 | C0G |
| C0402C220C5GAC | 0402 | 22 | ±0.25pF | 50 | C0G |
| C0402C330D5GAC | 0402 | 33 | ±0.5pF | 50 | C0G |
| C0402C470D5GAC | 0402 | 47 | ±0.5pF | 50 | C0G |
| C0402C680J5GAC | 0402 | 68 | ±5% | 50 | C0G |
| C0402C750J5GAC | 0402 | 75 | ±5% | 50 | C0G |
| C0402C101J5GAC | 0402 | 100 | ±5% | 50 | C0G |
| C0402C221K5RAC | 0402 | 220 | ±10% | 50 | X7R |
| C0402C331K5RAC | 0402 | 330 | ±10% | 50 | X7R |
| C0402C561K5RAC | 0402 | 560 | ±10% | 50 | X7R |
| C0402C102K5RAC | 0402 | 1000 | ±10% | 50 | X7R |
| C0402C222K5RAC | 0402 | 2200 | ±10% | 50 | X7R |
| C0402C562K5RAC | 0402 | 5600 | ±10% | 50 | X7R |
| C0402C103K5RAC | 0402 | 10,000 | ±10% | 50 | X7R |
| C0402C473K8PAC | 0402 | 47,000 | ±10% | 10 | X5R |
| C0402C104K8PAC | 0402 | 100,000 | ±10% | 10 | X5R |

Kit Part Number: CER ENG KIT 07

High Capacitance Value SMT Capacitors - 20 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Capacitance μ F | Tolerance | Voltage | Dielectric |
|-------------------|---------------|---------------------|-----------|---------|------------|
| C0402C104K4RAC | 0402 | 0.1 | \pm 10% | 16 | X7R |
| C0402C105K9PAC | 0402 | 1.0 | \pm 10% | 6.3 | X5R |
| C0603C103K2RAC | 0603 | 0.01 | \pm 10% | 200 | X7R |
| C0603C104K5RAC | 0603 | 0.1 | \pm 10% | 50 | X7R |
| C0603C105K4PAC | 0603 | 1.0 | \pm 10% | 16 | X5R |
| C0603C225K9PAC | 0603 | 2.2 | \pm 10% | 6.3 | X5R |
| C0603C475K9PAC | 0603 | 4.7 | \pm 10% | 6.3 | X5R |
| C0805C124K1RAC | 0805 | 0.12 | \pm 10% | 100 | X7R |
| C0805C224K5RAC | 0805 | 0.22 | \pm 10% | 50 | X7R |
| C0805C225K4RAC | 0805 | 2.2 | \pm 10% | 16 | X7R |
| C0805C475K4PAC | 0805 | 4.7 | \pm 10% | 16 | X5R |
| C0805C106K9PAC | 0805 | 10.0 | \pm 10% | 6.3 | X5R |
| C1206C684K5RAC | 1206 | 0.68 | \pm 10% | 50 | X7R |
| C1206C105K3RAC | 1206 | 1.0 | \pm 10% | 25 | X7R |
| C1206C475K3PAC | 1206 | 4.7 | \pm 10% | 25 | X5R |
| C1206C106K8RAC | 1206 | 10.0 | \pm 10% | 10 | X7R |
| C1206C106K4PAC | 1206 | 10.0 | \pm 10% | 16 | X5R |
| C1206C226K9PAC | 1206 | 22.0 | \pm 10% | 6.3 | X5R |
| C1210C226K4PAC | 1210 | 22.0 | \pm 10% | 16 | X5R |
| C1210C476M9PAC | 1210 | 47.0 | \pm 20% | 6.3 | X5R |

Kit Part Number: CER ENG KIT 08

High Voltage Capacitors - 20 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Termination Profile | Capacitance pF | Tolerance | Voltage | Dielectric |
|-------------------|--|---------------------|----------------|-----------|---------|------------|
| C330C102KGR5TA | Refer to F3101 Catalog for case size dimensions. | Leaded | 1000 | \pm 10% | 2000 | X7R |
| C330C102JHR5TA | | Leaded | 1000 | \pm 5% | 3000 | X7R |
| C330C102JDG5TA | | Leaded | 1000 | \pm 5% | 1000 | C0G |
| C330C101JHG5TA | | Leaded | 100 | \pm 5% | 3000 | C0G |
| C322C473KCR5TA | | Leaded | 47000 | \pm 10% | 500 | X7R |
| C322C103JDR5TA | | Leaded | 10000 | \pm 5% | 1000 | X7R |
| C322C102KFR5TA | | Leaded | 1000 | \pm 10% | 1500 | X7R |
| C322C101JCG5TA | | Leaded | 100 | \pm 5% | 500 | C0G |
| C322C471JDG5TA | | Leaded | 470 | \pm 5% | 1000 | C0G |
| C0805C101JCGAC | 0805 | SMT | 100 | \pm 5% | 500 | C0G |
| C1206C472KCRAC | 1206 | SMT | 4700 | \pm 10% | 500 | X7R |
| C1206C103KCRAC | 1206 | SMT | 10000 | \pm 10% | 500 | X7R |
| C1206C471JFRAC | 1206 | SMT | 470 | \pm 5% | 1500 | X7R |
| C1206C331KCGAC | 1206 | SMT | 330 | \pm 10% | 500 | C0G |
| C1210C103JDRAC | 1210 | SMT | 10000 | \pm 5% | 1000 | X7R |
| C1808C102KGRAC | 1808 | SMT | 1000 | \pm 10% | 2000 | X7R |
| C1812C103KCRAC | 1812 | SMT | 10000 | \pm 10% | 500 | X7R |
| C1812C473KCRAC | 1812 | SMT | 47000 | \pm 10% | 500 | X7R |
| C1812C102KGRAC | 1812 | SMT | 1000 | \pm 10% | 2000 | X7R |
| C2225C104KCRAC | 2225 | SMT | 100000 | \pm 10% | 500 | X7R |

Kit Part Number: CER ENG KIT 09

Open Mode/Fail Safe SMT Capacitors - 20 pcs. per Part Number

| KEMET Part Number | EIA Size Code | Capacitance μ F | Tolerance | Voltage | Dielectric |
|-------------------|---------------|---------------------|-----------|---------|------------|
| C0805F103K5RAC | 0805 | 0.01 | \pm 10% | 50 | X7R |
| C0805F223K1RAC | 0805 | 0.022 | \pm 10% | 100 | X7R |
| C0805F473K5RAC | 0805 | 0.047 | \pm 10% | 50 | X7R |
| C0805F104K5RAC | 0805 | 0.10 | \pm 10% | 50 | X7R |
| C0805F224K5RAC | 0805 | 0.22 | \pm 10% | 50 | X7R |
| C0805F474K3RAC | 0805 | 0.47 | \pm 10% | 25 | X7R |
| C1206F104K1RAC | 1206 | 0.10 | \pm 10% | 100 | X7R |
| C1206F224K5RAC | 1206 | 0.22 | \pm 10% | 50 | X7R |
| C1206F105K5RAC | 1206 | 1.0 | \pm 10% | 50 | X7R |
| C1210F105K5RAC | 1206 | 1.0 | \pm 10% | 50 | X7R |