

# CERAMIC CAPACITOR ENGINEERING DESIGN KITS



Johanson Dielectrics, Inc. offers a variety of multi-layer chip capacitor sample kits for proto-type design work. Each kit is grouped by type, size, or voltage and contains a selection of popular values and tolerances. The chips are individually packaged in labeled plastic compartments for easy access. The general range of kit contents is described below. Specific part number details may be found at [www.johansondielectrics.com](http://www.johansondielectrics.com)



## 0402 Ceramic Chip Capacitor Kit

P/N: S-0402

1400 piece sample assortment of selected values from 1.0pF to 0.22μF

Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0402	50 VDC - 6.3 VDC	NP0, X7R	1.0pF to 0.22μF	50 pcs	1400 pcs

## 0603 Ceramic Chip Capacitor Kit

P/N: S-0603

1400 piece sample assortment of selected values from 1.0pF to 0.22μF

Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0603	50 VDC - 16 VDC	NP0, X7R	10pF to 0.22μF	50 pcs	1400 pcs

## 0805 Ceramic Chip Capacitor Kit

P/N: S-0805

1400 piece sample assortment of selected values from 1.0pF to 0.47μF

Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0805	100 VDC - 16 VDC	NP0, X7R	10pF to 0.47μF	50 pcs	1400 pcs

## TANCERAM® HIGH CAPACITANCE Ceramic Chip Capacitor Kit

P/N: S-TAN-X5R

500 piece sample assortment of selected values from 1.0μF to 100μF

Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0402, 0603, 0805 1206, 1210	25 VDC - 6.3 VDC	X5R	1.0μF - 100μF	10 - 25 pcs	500 pcs

## 500 VDC Ceramic Chip Capacitor Kit

P/N: S-500

400 piece sample assortment of selected values from 33pF to 0.1μF

Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0805 - 1812	500 VDC	NP0, X7R	33pF to 0.1μF	10-20 pcs	400 pcs

## 1000 VDC Ceramic Chip Capacitor Kit

P/N: S-1KV

400 piece sample assortment of selected values from 22pF to 0.1μF

Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0805 - 2225	1000 VDC	NP0, X7R	22pF to 0.1μF	10-20 pcs	400 pcs

*Johanson may from time-to-time adjust actual kit contents based on design demand trends.  
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2000 VDC Ceramic Chip Capacitor Kit					P/N: S-2KV
300 piece sample assortment of selected values from 22pF to 0.022µF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
1206 - 2225	2000 VDC	NP0, X7R	22pF to 0.022µF	10-20 pcs	300 pcs
X2 SAFETY CERTIFIED Ceramic Chip Capacitor Kit					P/N: S-SY3
240 piece sample assortment of selected values from 10pF to 1500 pF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
1808	3KV DC / 250 AC	NP0, X7R	10pF to 1500 pF	20 pcs	240 pcs
X1/Y2 SAFETY CERTIFIED Ceramic Chip Capacitor Kit					P/N: S-SY2
200 piece sample assortment of selected values from 10pF to 2200 pF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
1808 - 2220	5KV DC / 250 AC	NP0, X7R	10pF to 2200pF	20 pcs	200 pcs
X2Y® EMI FILTER Capacitor Kit - 0402 Size					P/N: S-X07CBK
600 piece sample assortment of selected values from 1.0pF to 0.01µF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0402	10 - 50 VDC	NP0, X7R	1.0pF to 0.01µF	50 pcs	600 pcs
X2Y® EMI FILTER Capacitor Kit - 0603 Size					P/N: S-X14CBK
700 piece sample assortment of selected values from 1.0pF to 0.01µF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0603	50 - 100 VDC	NP0, X7R	1.0pF to 0.01µF	50 pcs	700 pcs
X2Y® POWER BYPASS Capacitor Kit - 0603 Size					P/N: S-X14-PBP
300 piece sample assortment of selected values from 1.0nF to 1.0µF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0603	6.3 - 100 VDC	X7R, X5R	1.0nF to 1.0µF	20 pcs	300 pcs
X2Y® EMI FILTER Capacitor Kit - 0805 Size					P/N: S-X15-EMI
300 piece sample assortment of selected values from 1.0pF to 0.01µF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
0805	50 - 100 VDC	NP0, X7R	1.0pF to 0.01µF	20 pcs	300 pcs
X2Y® DC MOTOR FILTER Capacitor Kit					P/N: S-X2Y-MTR
300 piece sample assortment of selected values from 0.10µF to 0.47µF					
Chip Size	Voltage Rating	Dielectric	Capacitance Range	Qty / Value	Total Qty
1206 - 1812	100 VDC	X7R	0.10µF to 0.47µF	30 pcs	300 pcs

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