

RF Ceramic Component Proto-Typing Kits

Johanson Technology's engineering prototype kits provide RF designers with a broad selection of high frequency ceramic components. Each kit contains a selection of components as well as the latest product data on Johanson's full line of "High Frequency Ceramic Solutions". List price is \$100.00 each, but price may be waived for qualified high volume applications. The selections listed below represents typical kit contents. Johanson reserves the right to make limited value/tolerance substitutions when necessary. Please advise any critical values at time of order.



Capacitor and Inductor Design Kits

0201 L-Series Capacitors & Ceramic Inductors (Values {pF or nH} & tolerances) 50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 0.7 B, 0.9 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.8 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J 50 PCS. EA. MLCI (nH): 0.6 C, 0.8 C, 1.0 S, 1.2 S, 1.5 S, 1.8 S, 2.2 S, 2.4 S, 2.7 S, 3.0 S, 3.3 S, 3.7 S, 3.9 S, 4.7 S, 5.1 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 13 J, 15 J, 18 J, 20 J, 22 J, 27 J, 33 J, 39 J	P/N : L/C-201DL
0402 S-Series Capacitors & Ceramic Inductors (Values {pF or nH} & tolerances) 50 PCS. EA. MLCC (pF): 0.2 B, 0.3 B, 0.5 B, 0.7 B, 0.9 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.6 B, 4.3 B, 4.7 B, 5.6 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 22 J, 27 J, 30 J 50 PCS. EA. MLCI (nH): 1.0 S, 1.2 S, 1.5 S, 1.8 S, 2.2 S, 2.4 S, 2.7 S, 3.0 S, 3.3 S, 3.9 S, 4.3 S, 4.7 S, 5.1 S, 5.6 S, 6.8 J, 7.5 J, 8.2 J, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J, 39 J, 47 J, 68 J, 100 J	P/N : L/C-402DS
0603 S-Series Capacitors & Ceramic Inductors (Values {pF or nH} & tolerances) 50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 0.8 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.3 B, 3.6 B, 3.9 B, 4.7 B, 5.6 C, 6.8 C, 8.2 C, 10 J, 12 J, 15 J, 18 J, 20 J, 24 J, 27 J, 33 J, 39 J, 47 J, 68 J, 82 J 50 PCS. EA. MLCI (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J, 39 J, 47 J, 56 J, 68 J, 82 J, 100 J, 120 J, 150 J, 180 J, 220 J	P/N : L/C-603DS
0805 S-Series Capacitors & WireWound High Q Chip Inductors (Values {pF or nH} & tolerances) 50 PCS. EA. MLCC (pF): 4.7 B, 5.6 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 18 J, 20 J, 22 J, 24 J, 27 J, 30 J, 33 J, 36 J, 39 J, 43 J, 47 J, 56 J, 68 J, 82 J, 100 J, 120 J, 150 J, 180 J, 220 J 20 PCS. EA. (nH): 2.7 C, 3.9 C, 5.6 C, 6.8 J, 8.2 J, 12 J, 16 J, 20 J, 27 J, 33 J, 39 J, 47 J, 56 J, 68 J, 82 J, 100 J, 120 J, 150 J, 180 J, 220 J, 270 J, 330 J, 390 J, 560 J, 1000 J, 2200 J, 6800 J, 10000 J	P/N : L/C-805DS

Non-Magnetic Capacitor Designer Kit

EIA 1111 S42E-Series Capacitors (Values {pF} & tolerances) Non-Magnetic 10 PCS. EACH (pF): 1.0 B 3.9 B, 4.7 B, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 18 J, 20 J, 27 J, 33 J, 47 J, 56 J, 68 J, 82 J, 100 J, 120 J, 150 J, 180 J, 220 J, 270 J, 390 J, 470 J, 560 K, 1000 K	P/N: S111DUE
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Tuning Capacitor Kits

0201 L-Series Capacitors (Values {pF} & tolerances) 50 PCS. EACH (pF): 0.2 A, 0.3 A, 0.4 A, 0.5 B, 0.6 B, 0.7 B, 0.8 B, 0.9 B, 1.0 B, 1.1 B, 1.2 B, 1.3 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.2 C, 6.8 C	P/N: S201TL
0402 S-Series Capacitors (Values {pF} & tolerances) 50 PCS. EACH (pF): 0.2 A, 0.3 A, 0.4 A, 0.5 B, 0.6 B, 0.7 B, 0.8 B, 0.9 B, 1.0 B, 1.1 B, 1.2 B, 1.3 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.2 C, 6.8 C	P/N: S402TS
0603 S-Series Capacitors (Values {pF} & tolerances) 50 PCS. EACH (pF): 0.2 B, 0.3 B, 0.4 B, 0.5 B, 0.6 B, 0.7 B, 0.8 B, 0.9 B, 1.0 B, 1.1 B, 1.2 B, 1.3 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.2 C, 6.8 C	P/N: S603TS
0805 S-Series Capacitors (Values {pF} & tolerances) 50 PCS. EACH (pF): 0.3 B, 0.5 B, 0.7 B, 0.9 B, 1.0 B, 1.1 B, 1.2 B, 1.3 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.2 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J	P/N: S805TS
1111 E-Series Capacitors (Values {pF} & tolerances) 10 PCS. EACH (pF): 0.5 B, 0.6 B, 0.7 B, 0.8 B, 0.9 B, 1.0 B, 1.1 B, 1.2 B, 1.3 B, 1.5 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.2 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J	P/N: S111TVE

Non-Magnetic Capacitor Tuning Kit

EIA 1111 S42E-Series Capacitors (Values {pF} & tolerances) Non-Magnetic

P/N: S111TUE

10 PCS. EACH (pF): 0.5 B, 0.6 B, 0.7 B, 0.8 B, 0.9 B, 1.0 B, 1.1 B, 1.2 B, 1.3 B, 1.5 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.2 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J

Single Layer Capacitor Kits

Broadband Single Layer Capacitors

P/N: GBL

10 PCS. EACH: 160U01A271PN4W, 160U01A471MT4W, 160U02A102MT4W, 500U02A471MT4W, 500U03A102MT4W, 160U03A222MN4W, 500U04A152KN4W, 160V02A681MT4W, 160V01A471MT4W, 500V01A101MT4W

WireWound Inductor Kits

0402 WireWound High Q Chip Inductors (Values {nH} & tolerances)

P/N: L402W

20 PCS. EACH (nH): 1.0 C, 1.8 C, 2.0 C, 2.7 C, 3.3 C, 3.9 C, 4.7 C, 5.6 C, 6.8 J, 7.5 J, 8.2 J, 9.0 J, 10 J, 12 J, 15 J, 18 J, 20 J, 22 J, 24 J, 27 J, 30 J, 33 J, 39 J, 47 J, 56 J, 82 J, 100 J, 120 J

0603 WireWound High Q Chip Inductors (Values {nH} & tolerances)

P/N: L603W

20 PCS. EACH (nH): 1.6 C, 1.8 C, 2.0 C, 3.9 C, 4.7 C, 5.1 C, 5.6 C, 6.8 J, 7.5 J, 8.2 J, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J, 39 J, 47 J, 56 J, 68 J, 72 J, 82 J, 100 J, 150 J, 180 J, 270 J, 330 J

0805 WireWound High Q Chip Inductors (Values {nH} & tolerances)

P/N: L805W

20 PCS. EACH (nH): 2.7 C, 3.9 C, 5.6 C, 6.8 J, 8.2 J, 12 J, 16 J, 20 J, 27 J, 33 J, 39 J, 47 J, 56 J, 68 J, 82 J, 100 J, 120 J, 150 J, 180 J, 220 J, 270 J, 330 J, 390 J, 560 J, 1000 J, 2200 J, 6800 J, 10000 J

Multilayer Ceramic Inductor Kits

0201 Inductors (Values {nH} & tolerances)

P/N: L201DC

50 PCS. EACH (nH): 0.6 C, 0.8 C, 1.0 S, 1.2 S, 1.5 S, 1.8 S, 2.2 S, 2.4 S, 2.7 S, 3.0 S, 3.3 S, 3.7 S, 3.9 S, 4.7 S, 5.1 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 13 J, 15 J, 18 J, 20 J, 22 J, 27 J, 33 J, 39 J

0402 Inductors (Values {nH} & tolerances)

P/N: L402DC

50 PCS. EACH (nH): 1.0 S, 1.2 S, 1.5 S, 1.8 S, 2.2 S, 2.4 S, 2.7 S, 3.0 S, 3.3 S, 3.9 S, 4.3 S, 4.7 S, 5.1 S, 5.6 S, 6.8 J, 7.5 J, 8.2 J, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J, 39 J, 47 J, 68 J, 100 J

0603 Inductors (Values {nH} & tolerances)

P/N: L603DC

50 PCS. EACH (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J, 39 J, 47 J, 56 J, 68 J, 82 J, 100 J, 120 J, 150 J, 180 J, 220 J

(Individual) Capacitor Designer Kits

0201 L-Series Capacitors (Values {pF} & tolerances)

P/N: S201DL

50 PCS. EACH (pF): 0.3 B, 0.5 B, 0.7 B, 0.9 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.0 B, 3.3 B, 3.6 B, 3.9 B, 4.3 B, 4.7 B, 5.1 C, 5.6 C, 6.8 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 18 J, 22 J, 27 J, 33 J

0402 S-Series Capacitors (Values {pF} & tolerances)

P/N: S402DS

50 PCS. EACH (pF): 0.2 B, 0.3 B, 0.5 B, 0.7 B, 0.9 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.4 B, 2.7 B, 3.0 B, 3.6 B, 4.3 B, 4.7 B, 5.6 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 22 J, 27 J, 30 J

0603 S-Series Capacitors (Values {pF} & tolerances)

P/N: S603DS

50 PCS. EACH (pF): 0.3 B, 0.5 B, 0.8 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.3 B, 3.6 B, 3.9 B, 4.7 B, 5.6 C, 6.8 C, 8.2 C, 10 J, 12 J, 15 J, 18 J, 20 J, 24 J, 27 J, 33 J, 39 J, 47 J, 68 J, 82 J

0805 S-Series Capacitors (Values {pF} & tolerances)

P/N: S805DS

50 PCS. EACH (pF): 4.7 B, 5.6 C, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 18 J, 20 J, 22 J, 24 J, 27 J, 30 J, 33 J, 36 J, 39 J, 43 J, 47 J, 56 J, 68 J, 82 J, 100 k, 120 k, 150 k, 180 k, 220 k

1111 E-Series Capacitors (Values {pF} & tolerances)

P/N: S111DVE

10 PCS. EACH (pF): 1.0 B, 3.9 B, 4.7 B, 6.8 C, 7.5 C, 8.2 C, 9.1 C, 10 J, 12 J, 15 J, 18 J, 20 J, 27 J, 33 J, 47 J, 56 J, 68 J, 82 J, 100 K, 120 K, 150 K, 180 K, 220 K, 270 K, 390 K, 470 K, 560 K, 1000 K



2.45GHz Designer Kit for WLAN, Bluetooth, Zigbee, ISM and 802.11

0402 S-Series Capacitors, 0402 Inductors & 2.45 GHz RF Components

P/N: 2450L/C402D

6 PCS. EA. BAND PASS FILTERS: 2450BP07A0100, 2450BP14D0100, 2450BP15B100, 2450BP15H0100, 2450BP18C100C, 2450BP39D100C, 2450BP14F0100
6 PCS. EA. CHIP ANTENNA: 2450AT14A100, 2450AT18B100, 2450AT18D0100, 2450AT42E0100, 2450AT42B100, 2450AT43B100, 2450AT45A100
6 PCS. EA. LOW PASS FILTER: 2450LP14B100, 2450LP07C0100 6 PCS. EA. HIGH PASS FILTER: 2450HP14A100
6 PCS. EA. BALUN: 2450BL14C050, 2450BL15B050, 2450BL15B100, 2450BL07A0050
6 PCS. EA. FILTER BALUN: 2450FB15A050, 2450FB15A0100, 2450FB39B100 6 PCS. EA. DIPLEXER: 2450DP14G5400, 2450DP15K5400, 2450DP15Q5400
50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 1.0 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.3 B, 3.9 B, 4.7 B, 5.6 C, 6.8 C, 8.2 C, 10 J
50 PCS. EA. MLCI (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 15 J, 18 J, 27 J

0603 S-Series Capacitors, 0603 Inductors & 2.45 GHz RF Components

P/N: 2450L/C603D

6 PCS. EA. BAND PASS FILTERS: 2450BP07A0100, 2450BP14D0100, 2450BP15B100, 2450BP15H0100, 2450BP18C100C, 2450BP39D100C, 2450BP14F0100
6 PCS. EA. CHIP ANTENNA: 2450AT14A100, 2450AT18B100, 2450AT18D0100, 2450AT42E0100, 2450AT42B100, 2450AT43B100, 2450AT45A100
6 PCS. EA. LOW PASS FILTER: 2450LP14B100, 2450LP07C0100 6 PCS. EA. HIGH PASS FILTER: 2450HP14A100
6 PCS. EA. BALUN: 2450BL14C050, 2450BL15B050, 2450BL15B100, 2450BL07A0050
6 PCS. EA. FILTER BALUN: 2450FB15A050, 2450FB15A0100, 2450FB39B100 6 PCS. EA. DIPLEXER: 2450DP14G5400, 2450DP15K5400, 2450DP15Q5400
50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 1.0 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.3 B, 3.9 B, 4.7 C, 5.6 C, 6.8 C, 8.2 C, 10 J
50 PCS. EA. MLCI (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 15 J, 18 J, 27 J

5.5GHz Designer Kit for WLAN, Bluetooth, ISM and 802.11

0402 S-Series Capacitors, 0402 Inductors & RF Components

P/N: 5500L/C402D

6 PCS. EA. BAND PASS FILTERS: 5515BP15B975, 5550BP14A0800, 5515BP15C1020, 5515BP15B725, 5425BP15A1050, 5515BP15C975, 5400BP14A0950
6 PCS. EA. CHIP ANTENNA: 2450AD46A5400, 5400AT18A1000, 5500AT07A0900, 2450AD14A5500 6 PCS. EA. LOW PASS FILTER 5515LP15A730
6 PCS. EA. BALUN: 5400BL14B100, 5400BL15B050, 5400BL15B100, 5400BL15K050
6 PCS. EA. DIPLEXER: 2450DP15Q5400, 2450DP15K5400, 2450DP15D5400, 2450DP15E5400 6 PCS. EA. HIGH PASS FILTER 5400HP05A0950
50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 0.8 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.7 B, 3.3 B, 3.9 B, 4.7 B, 5.6 C
50 PCS. EA. MLCI (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 15 J

0603 S-Series Capacitors, 0603 Inductors & RF Components

P/N: 5500L/C603D

6 PCS. EA. BAND PASS FILTERS: 5515BP15B975, 5550BP14A0800, 5515BP15C1020, 5515BP15B725, 5425BP15A1050, 5515BP15C975, 5400BP14A0950
6 PCS. EA. CHIP ANTENNA: 2450AD46A5400, 5400AT18A1000, 5500AT07A0900, 2450AD14A5500 6 PCS. EA. LOW PASS FILTER 5515LP15A730
6 PCS. EA. BALUN: 5400BL14B100, 5400BL15B050, 5400BL15B100, 5400BL15K050
6 PCS. EA. DIPLEXER: 2450DP15Q5400, 2450DP15K5400, 2450DP15D5400, 2450DP15E5400 6 PCS. EA. HIGH PASS FILTER 5400HP05A0950
50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 0.8 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.0 B, 2.2 B, 2.7 B, 3.3 B, 3.9 B, 4.7 B, 5.6 C
50 PCS. EA. MLCI (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 15 J

Internet of Things, ISM Development Kit (IoT)

0402 RFCC - Internet of Things ISM Development Kit, S-Series Capacitors, RF Chip Inductors

P/N: IOT-L/C402D-1

8 PCS. EA. 430MHz ISM Ant: 0433AT62A0020 8 PCS. EA. 2.4G ANT Hi-Gain: 2450AT45A100
8 PCS. EA. TI CC11XX 400MHz: 0433BM15A0001 8 PCS. EA. 2.4G BPF EIA0805: 2450BP15B100
8 PCS. EA. 500MHz LPF: 0500LP15A500 8 PCS. EA. 2.4G Balun 1:2: 2450BL15B100
8 PCS. EA. TI CC11XX 900MHz: 0896BM15A0001 8 PCS. EA. 2.4G Balun 1:1: 2450BL15B050
8 PCS. EA. AT86RF215 900MHz: 0896BM15E0025 8 PCS. EA. nRF51 BAL-BPF: 2450BM14E0003
8 PCS. EA. 868/915 Antenna: 0900AT43A0070 8 PCS. EA. CC26XX BAL-BPF: 2450BM14G0011
8 PCS. EA. 868/928 HiRejLPF: 0900LP15B0063 8 PCS. EA. CC25/24XX BAL-FL: 2450BM15A0002
8 PCS. EA. 868/915 LPF: 0915LP15B026 8 PCS. EA. AT86RF23X SAMR21: 2450BM15A0015
8 PCS. EA. CC12xx BAL FIL: 0900PC15J0013 8 PCS. EA. 2.4G BPF EIA0603: 2450BP14F0100
8 PCS. EA. 2.4GHz Micro ANT: 2450AT07A0100 8 PCS. EA. 2.4G BPF EIA0805: 2450BP15H0100
8 PCS. EA. 2.4GHz Mini ANT: 2450AT18A100 8 PCS. EA. 2.4G LPF EIA0603: 2450LP14B100
8 PCS. EA. 2.4GHz ANT Gain: 2450AT18D0100 8 PCS. EA. 2.4G LPF EIA0805: 2450LP15B050
8 PCS. EA. 2.4G ANT Corner: 2450AT42B100 8 PCS. EA. AT86RF23X Mega12: 2450FB15L0001
8 PCS. EA. 2.4G METAL GND: 2450AT42E0100
50 PCS. EA. MLCC (pF): 0.3 B, 0.5 B, 0.8 B, 1.0 B, 1.2 B, 1.5 B, 1.8 B, 2.2 B, 2.7 B, 3.3 B, 3.9 B, 4.7 B, 5.6 B, 6.8 C
50 PCS. EA. MLCI (nH): 1.0 S, 1.5 S, 1.8 S, 2.2 S, 2.7 S, 3.3 S, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 12 J, 15 J

Standard Termination for all kits - 100% Sn. Consult Factory for other termination options