

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".

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)	P/N : L/C-201DL
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	
0402 S-Series Capacitors & Ceramic Inductors (Values {pF or nH} & tolerances)	P/N : L/C-402DS
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	
0603 S-Series Capacitors & Ceramic Inductors (Values {pF or nH} & tolerances)	P/N : L/C-603DS
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	
0805 S-Series Capacitors & WireWound High Q Chip Inductors (Values {pF or nH} & tolerances)	P/N : L/C-805DS
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	

Tuning Capacitor Kits

0201 L-Series Capacitors (Values {pF} & tolerances)	P/N: S201TL
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	
0402 S-Series Capacitors (Values {pF} & tolerances)	P/N: S402TS
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	
0603 S-Series Capacitors (Values {pF} & tolerances)	P/N: S603TS
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	
0805 S-Series Capacitors (Values {pF} & tolerances)	P/N: S805TS
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	
1111 E-Series Capacitors (Values {pF} & tolerances)	P/N: S111TVE
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: GBBL
10 PCS. EACH: V01A151MT, V02A471MT, V02A102MT, V03A102MT, V04A182MT	

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	

(Individual) Capacitor, Inductor 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	
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 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	
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 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, 3.0 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	
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	
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 J, 120 J, 150 J, 180 J, 220 J	
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: 2450BP07A100 , 2450BP14C0100, 2450BP15B100, 2450BP18C100D	
6 PCS. EA. CHIP ANTENNA: 2450AT18A100, 2450AT18B100, 2450AT42A100, 2450AT42B100, 2450AT43A100 , 2450AT43B100, 2450AT45A100	
6 PCS. EA. LOW PASS FILTER: 2450LP14A100, 2450LP14B100, 2450LP15A050	6 PCS. EA. HIGH PASS FILTER: 2450HP14A100
6 PCS. EA. BALUN: 2450BL14C050, 2450BL14C100, 2450BL15B050, 2450BL15B100, 2450BL15B200	
6 PCS. EA. FILTER BALUN: 2450FB15A050, 2450FB15K0001, 2450FB39A050	6 PCS. EA. DIPLEXER: 2450DP15A5512, 2450DP15D5400
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: 2450BP07A100 , 2450BP14C0100, 2450BP15B100, 2450BP18C100D	
6 PCS. EA. CHIP ANTENNA: 2450AT18A100, 2450AT18B100, 2450AT42A100, 2450AT42B100, 2450AT43A100 , 2450AT43B100, 2450AT45A100	
6 PCS. EA. LOW PASS FILTER: 2450LP14A100, 2450LP14B100, 2450LP15A050	6 PCS. EA. HIGH PASS FILTER: 2450HP14A100
6 PCS. EA. BALUN: 2450BL14C050, 2450BL14C100, 2450BL15B050, 2450BL15B100, 2450BL15B200	
6 PCS. EA. FILTER BALUN: 2450FB15A050, 2450FB15K0001, 2450FB39A050	6 PCS. EA. DIPLEXER: 2450DP15A5512, 2450DP15D5400
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: 5515BP15C1020, 5515BP15B725, 5515BP15B730, 5515BP15C975, 5487BP15B675, 5487BP15C675
- 6 PCS. EA. CHIP ANTENNA: 2450AD46A5400, 5250AT43A200, 5400AT18A1000, 5775AT43A100
- 6 PCS. EA. BALUN: 5400BL15B050, 5400BL15B100, 5400BL15K050, 5512BL15B100, 5800BL15B100
- 6 PCS. EA. DIPLEXER: 2450DP15A5512, 2450DP15B5512, 2450DP15D5400, 2450DP15E5400
- 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: 5515BP15C1020, 5515BP15B725, 5515BP15B730, 5515BP15C975, 5487BP15B675, 5487BP15C675
- 6 PCS. EA. CHIP ANTENNA: 2450AD46A5400, 5250AT43A200, 5400AT18A1000, 5775AT43A100
- 6 PCS. EA. BALUN: 5400BL15B050, 5400BL15B100, 5400BL15K050, 5512BL15B100, 5800BL15B100
- 6 PCS. EA. DIPLEXER: 2450DP15A5512, 2450DP15B5512, 2450DP15D5400, 2450DP15E5400
- 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

Designer Kit for WiMAX & UWB

0402 S-Series Capacitors, 0402 Inductors & RF Components

P/N: WUWBL/C402D

- 6 PCS. EA. CHIP ANTENNA: 2500AT44M0400, 3100AT51A7200
- 6 PCS. EA. BAND PASS FILTERS: 2500BP15M400, 3600BP15M600, 4000BP15U1800, 5130BP18U4060
- 6 PCS. EA. BALUN: 2500BL14M050, 2450BL14M100, 3600BL14M050, 3600BL14M100, 4000BL14U100
- 6 PCS. EA. FILTER BALUN: 2345FB39A0050, 2595FB39A0050, 3500FB39A0050
- 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, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 15 J, 18 J, 27 J

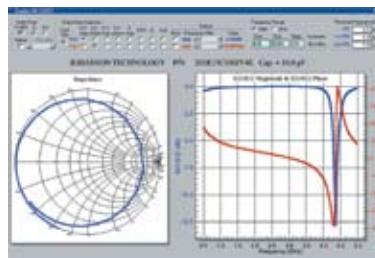
0603 S-Series Capacitors, 0603 Inductors & RF Components

P/N: WUWBL/C603D

- 6 PCS. EA. CHIP ANTENNA: 2500AT44M0400, 3100AT51A7200
- 6 PCS. EA. BAND PASS FILTERS: 2500BP15M400, 3600BP15M600, 4000BP15U1800, 5130BP18U4060
- 6 PCS. EA. BALUN: 2500BL14M050, 2450BL14M100, 3600BL14M050, 3600BL14M100, 4000BL14U100
- 6 PCS. EA. FILTER BALUN: 2345FB39A0050, 2595FB39A0050, 3500FB39A0050
- 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, 3.9 S, 4.7 S, 5.6 S, 6.8 J, 8.2 J, 10 J, 15 J, 18 J, 27 J

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

JTisoft® CAPACITOR & INDUCTOR MODELING SOFTWARE



Capacitor	Frequency Range	10 MHz	1 GHz	10 GHz	20 GHz
S10	10 MHz	1.8	0.95	28.1	30.9
S40	10 MHz	2.7	0.95	76.2	83.6
S80	10 MHz	4.3	0.95	98.8	105.6
S160	10 MHz	7.5	0.95	115.9	125.7
S320	10 MHz	14.1	0.95	145.5	157.7
S640	10 MHz	26.1	0.95	122.1	137.7
S1280	10 MHz	50.7	0.95	105.7	122.7
S2560	10 MHz	101.4	0.95	93.5	107.9
S5120	10 MHz	202.8	0.95	87.9	102.8
S10240	10 MHz	405.6	0.95	82.2	95.5
S20480	10 MHz	811.2	0.95	76.6	90.2
S40960	10 MHz	1622.4	0.95	71.3	85.1
S81920	10 MHz	3244.8	0.95	66.6	80.2
S163840	10 MHz	6489.6	0.95	62.2	74.4
S327680	10 MHz	12979.2	0.95	58.1	70.2
S655360	10 MHz	25958.4	0.95	54.3	65.4
S1310720	10 MHz	51916.8	0.95	50.7	60.8
S2621440	10 MHz	103833.6	0.95	47.4	56.1
S5242880	10 MHz	207667.2	0.95	44.1	52.2
S10485760	10 MHz	415334.4	0.95	41.0	49.1
S20971520	10 MHz	830668.8	0.95	37.9	45.9
S41943040	10 MHz	1661337.6	0.95	35.0	42.9
S83886080	10 MHz	3322675.2	0.95	31.9	39.8
S167772160	10 MHz	6645350.4	0.95	29.7	37.7
S335544320	10 MHz	13290700.8	0.95	27.6	35.6
S671088640	10 MHz	26581401.6	0.95	25.5	33.5
S1342177280	10 MHz	53162803.2	0.95	23.4	31.4
S2684354560	10 MHz	106325606.4	0.95	21.4	29.4
S5368709120	10 MHz	212651212.8	0.95	19.5	27.5
S10737418240	10 MHz	425302425.6	0.95	17.7	25.7
S21474836480	10 MHz	850604851.2	0.95	16.0	23.8
S42949672960	10 MHz	1701209702.4	0.95	14.4	22.1
S85899345920	10 MHz	3402419404.8	0.95	13.0	20.7
S171798691840	10 MHz	6804838809.6	0.95	11.7	19.4
S343597383680	10 MHz	13609677619.2	0.95	10.5	18.2
S687194767360	10 MHz	27219355238.4	0.95	9.4	17.1
S1374389534720	10 MHz	54438710476.8	0.95	8.3	16.0
S2748778569440	10 MHz	108877420953.6	0.95	7.3	14.9
S5497557138880	10 MHz	217754841907.2	0.95	6.3	13.8
S10995114277760	10 MHz	435509683814.4	0.95	5.4	12.7
S21985228555520	10 MHz	871019367628.8	0.95	4.6	11.6
S43970457111040	10 MHz	1742038735257.6	0.95	3.8	10.5
S87940914222080	10 MHz	3484077470515.2	0.95	3.1	9.4
S175881828444160	10 MHz	6968154941030.4	0.95	2.5	8.3
S351763656888320	10 MHz	13936309882060.8	0.95	2.0	7.2
S703527313776640	10 MHz	27872619764121.6	0.95	1.6	6.1
S1407054627553280	10 MHz	55745239528243.2	0.95	1.3	5.1
S2814109255106560	10 MHz	111490479056486.4	0.95	1.0	4.1
S5628218510213120	10 MHz	222980958112972.8	0.95	0.8	3.1
S1125643702042640	10 MHz	445961916225945.6	0.95	0.6	2.1
S2251287404085280	10 MHz	891923832451891.2	0.95	0.4	1.1
S4502574808170560	10 MHz	1783847664903782.4	0.95	0.3	0.9
S9005149616341120	10 MHz	3567695329807564.8	0.95	0.2	0.7
S1801029923268240	10 MHz	7135390659615129.6	0.95	0.1	0.3
S3602059846536480	10 MHz	14270781319230299.2	0.95	0.05	0.15
S7204119693072960	10 MHz	28541562638460598.4	0.95	0.025	0.075
S14408239386145920	10 MHz	57083125276921196.8	0.95	0.0125	0.0375
S28816478772291840	10 MHz	11416625053384239.2	0.95	0.00625	0.01875
S57632957544583680	10 MHz	22833250106768478.4	0.95	0.003125	0.009375
S115265915089167360	10 MHz	45666500213536956.8	0.95	0.0015625	0.0046875
S230531830178334720	10 MHz	91333000427073913.6	0.95	0.00078125	0.00234375
S461063660356669440	10 MHz	182666000854147827.2	0.95	0.000390625	0.001171875
S922127320713338880	10 MHz	365332001708295654.4	0.95	0.0001953125	0.0005859375
S1844254641426677760	10 MHz	730664003416591308.8	0.95	0.00009765625	0.00029296875
S3688509282853355520	10 MHz	146132800683318261.6	0.95	0.000048828125	0.0001464765625
S7377018565706711040	10 MHz	292265601366636523.2	0.95	0.0000244140625	0.000073238125
S14754037131413422080	10 MHz	584531202733273046.4	0.95	0.00001220703125	0.00003661903125
S29508074262826844160	10 MHz	116906240546654609.2	0.95	0.000006103515625	0.000018309515625
S59016148525653688320	10 MHz	233812481093309218.4	0.95	0.0000030517578125	0.00001015877578125
S118032291051307376640	10 MHz	467624962186618436.8	0.95	0.00000152587890625	0.00000507939290625
S236064582102614753280	10 MHz	935249924373236873.6	0.95	0.000000762939453125	0.000002539697453125
S472129164205229506560	10 MHz	1870499848746473747.2	0.95	0.0000003814697265625	0.00000126734863125
S944258328410459013120	10 MHz	3740999697492947494.4	0.95	0.00000019073488125	0.0000006336744125
S188851665682091802640	10 MHz	7481999394985894988.8	0.95	0.000000095367440625	0.0000003168372203125
S377703331364183605280	10 MHz	1496399878997178977.6	0.95	0.0000000476837103125	0.0000001584185515625
S755406662728367210560	10 MHz	2992799757994357955.2	0.95	0.0000000238418550625	0.00000008920927578125
S151081332545734441120	10 MHz	5985599515988715910.4	0.95	0.00000001192092753125	0.000000044604637890625
S302162665091468882240	10 MHz	1197119873197743180.8	0.95	0.00000000596046379375	0.00000002230231896875
S604325330182937764480	10 MHz	2394239746395486361.6	0.95	0.000000002980231896875	0.000000011151159484375
S120865066036587552960	10 MHz	4788479492790972723.2	0.95	0.0000000014900759734375	0.0000000055751898934375
S241730132073175105920	10 MHz	9576958985581945446.4	0.95	0.00000000074503798671875	0.00000000278759494684375
S483460264146350211840	10 MHz	1915391797116389089.2	0.95	0.000000000372518983359375	0.0000000013937974734375
S966920528292700423680	10 MHz	3830783594232778178.4	0.95	0.0000000001862594916796875	0.00000000074689873671875
S1933841056554008447360	10 MHz	7661567188465556356.8	0.95	0.00000000009312974583984375	0.000000000373449378359375
S3867682113108016894720	10 MHz	1532313437693111273.6	0.95	0.000000000046564872919921875	0.0000000001867246891796875
S7735364226216033789440	10 MHz	3064626875386222547.2	0.95	0.0000000000232824364599609375	0.00000000009336234458984375
S15470728452432067578880	10 MHz	6129253750772445094.4	0.95	0.0000000000116412182299804875	0.000000000046681672294921875
S3094145690486413515760	10 MHz	1225850750154489018.8	0.95	0.00000000000582060911499524375	0.00000000002334033447474375
S6188291380972827035520	10 MHz	2451701500308978037.6	0.95	0.000000000002910304557497621875	0.000000000011670167287371875
S1237658276194565407040	10 MHz	4903403000617956075.2	0.95	0.000000000014550522787488109375	0.00000000005835233454374375
S2475316552389130814080	10 MHz	9806806000135912150.4	0.95	0.0000000000072752613737440546875	0.000000000029176167271875
S4950633104778261628160	10 MHz	1961361200271882430.8	0.95	0.00	