

**PARTS LIST**  
**DC520B**

Item	Qty	Reference	Part Description	Manufacturer / Part #
<b>PCB Assembly -A: Low Freq.</b>				
1	3	C5,C24,C25	CAP, 22pF, NPO, 50V, 5%, 0402	AVX 04025A220JAT
2	1	C32	CAP, 33pF, NPO, 50V, 5%, 0402	AVX 04025A330JAT
3	2	C3,C16	CAP, 10uF, X5R, 10V, 20%, 1206	AVX 1206ZD106MAT
4	6	C7,C9,C13,C15,C26,C27	CAP, .1uF, X5R, 10V, 10%, 0402	AVX 0402ZD104KAT
5	12	C2,C10,C12,C17,C19,C20,C21,C22,C23,C28,C30,C31	CAP, 0.1uF, X7R, 16V, 20%, 0603	AVX 0603YC104MAT
6	2	C11,C29	CAP, 1uF, X5R, 16V, 20%, 0805	AVX 0805YD105MAT
7	1	C1	CAP, 2.2uF, X5R, 10V, 20%, 0805	AVX 0805ZD225MAT
8	5	C4,C6,C8,C14,C18	CAP, 4.7uF, X5R, 10V, 20%, 0805	AVX 0805ZD475MAT
9	1	J2	CONN, HDR, .1X.1 CNTRS, 40PIN	COMM CON CONN. 3201S-40G1
10	4	J1,J3,J4,J5	CONN, SMA, 50-OHM, EDGE-LAUNCH	EF JOHNSON 142-0701-851
11	5	E1-E5	TURRETS, TEST POINT	MILL-MAX 2308-2
12	4	JP1-JP4	CONN, HDR, 2MM, 3 PIN	COMM CON CONN. 2802S-03G2
13	1	U2	IC, IDT74ALVC1G86	Integrated DeviceTech. 74ALVC1G86DY
14	1	U3	IC, LT1521-3	LINEAR TECH. LT1521CST-3
15	1	U5	IC, <b>LTC1748CFW</b> , TSSOP 48	LINEAR TECH. LTC1748CFW
16	1	U4	IC, 16-BIT XSPRNT D-TYPE LATCH, TSSOP 48	TI SN74ALVCH16373DGGR
17	4	RN5-RN8	RES ARRAY, CHIP, 33 OHM, ISO	AAC CRN16-4V-330JBM
18	0	R1,R10	RES, CHIP, 0 OHM, 0402	AAC CJ05-000M
19	4	R3,R4,R21,R22	RES, CHIP, 100 OHM, 1%, 0603	AAC CR16-1000FM
20	1	R5	RES, CHIP, 1 OHM, 1%, 0603	AAC CR16-1R00FM
21	1	R8	RES, CHIP, 10 OHM, 1%, 0603	AAC CR16-10R0FM
22	2	R9,JP5	RES, CHIP, 0 OHM, 0603	AAC CJ06-000M
23	2	R2,R7	RES, CHIP, 12 OHM, 1%, 0402	AAC CR05-12R0FM
24	2	R-A,R-B	RES, CHIP, 30 OHM, 1%, 0402	AAC CR05-30R0FM
25	1	R6	RES, CHIP, 200 OHM, 1%, 0603	AAC CR16-2000FM
26	2	T1,T2	XFMR, T1-1K	MINI CIRCUITS T1-1T-KK81
27	1	Y1	XSTL, 80MHz	SARONIX NTH089A-80.0000
28	4	(JP1-JP4)	SHUNT, 2PIN, 2MM	COMM CON CCIJ2MM-138-G
29	4	MH1,MH3,MH4,MH6	STANDOFF, NYLON, HEX, 4-40 X 1/4"	MICRO PLASTIC #14HTSP101
30	4	MH1,MH3,MH4,MH6	SCREW, 4-40 X 1/4"	ANY
31	1		FAB, DC520A PCB	DEMO BOARD
<b>PCB Assembly -B: High Freq.</b>				
1	1	C5	CAP, 12pF, NPO, 50V, 5%, 0402	AVX 04025A120JAT

Item	Qty	Reference	Part Description	Manufacturer / Part #
<b>PCB Assembly -C</b>				
1	3	C5,C24,C25	CAP, 22pF, NPO, 50V, 5%, 0402	AVX 04025A220JAT
15	1	U5	IC, <b>LTC1745CFW</b> , TSSOP 48	LINEAR TECH. LTC1745CFW
27	1	Y1	XSTL, 25MHz	SARONIX NTH089A-25.0000
<b>PCB Assembly -D</b>				
1	3	C5,C24,C25	CAP, 22pF, NPO, 50V, 5%, 0402	AVX 04025A220JAT
15	1	U5	IC, <b>LTC1746CFW</b> , TSSOP 48	LINEAR TECH. LTC1746CFW
27	1	Y1	XSTL, 25MHz	SARONIX NTH089A-25.0000
<b>PCB Assembly -E</b>				
15	1	U5	IC, <b>LTC1747CFW</b> , TSSOP 48	LINEAR TECH. LTC1747CFW
<b>PCB Assembly -F</b>				
1	1	C5	CAP, 12pF, NPO, 50V, 5%, 0402	AVX 04025A120JAT
15	1	U5	IC, <b>LTC1747CFW</b> , TSSOP 48	LINEAR TECH. LTC1747CFW
<b>PCB Assembly -G</b>				
15	1	U5	IC, <b>LTC1742CFW</b> , TSSOP 48	LINEAR TECH. LTC1742CFW
27	1	Y1	XSTL, 65MHz	SARONIX NTH089A-65.0000
<b>PCB Assembly -H</b>				
1	1	C5	CAP, 12pF, NPO, 50V, 5%, 0402	AVX 04025A120JAT
15	1	U5	IC, <b>LTC1742CFW</b> , TSSOP 48	LINEAR TECH. LTC1742CFW
27	1	Y1	XSTL, 65MHz	SARONIX NTH089A-65.0000
<b>PCB Assembly -I</b>				
15	1	U5	IC, <b>LTC1741CFW</b> , TSSOP 48	LINEAR TECH. LTC1741CFW
27	1	Y1	XSTL, 65MHz	SARONIX NTH089A-65.0000
<b>PCB Assembly -J</b>				
1	1	C5	CAP, 12pF, NPO, 50V, 5%, 0402	AVX 04025A120JAT
15	1	U5	IC, <b>LTC1741CFW</b> , TSSOP 48	LINEAR TECH. LTC1741CFW
27	1	Y1	XSTL, 65MHz	SARONIX NTH089A-65.0000

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<b>PCB Assembly -K</b>				
1	3	C5,C24,C25	CAP, 22pF, NPO, 50V, 5%, 0402	AVX 04025A220JAT
15	1	U5	IC, <b>LTC1743CFW</b> , TSSOP 48	LINEAR TECH. LTC1743CFW
27	1	Y1	XSTL, 50MHz	SARONIX NTH089A-50.0000
NOTES: UNLESS OTHEWISE SPECIFIED				
1. DO NOT INSTALL R1 & R10.				
2. INSTALL SHUNT, ITEM 28, ON JP1-JP4 PIN 1 & 2.				