

Parts List

Wednesday, November 02, 2011
11:31 AM

Using Newark Codes

Enough Parts to Build 4 Boxes (~\$800)

Resistors/Capacitors/Inductors/Diodes

Quantity	Desc and Manu Part #	Newark Part #	Notes
10	0805 - 0 Ohm resistor	52K9721	V1.0, Can't remember what these are for
10	1206 - 0 Ohm resistor	53K1777	V1.0, Can't remember what these are for
200	0805 - 10K resistor	02J2368	V1.0
15	0805 - 1k	61J5462	V1.0
20	0805 - 47k	59M6914	V1.0
30	0805 - 100k	32K2766	V1.0
10	0805 - 22k	59M6874	V1.0
25	0805 - 4.7k	58K4851	V1.0
15	0805 - 3.3k	59M6884	V1.0
15	0805 - 1.5k	59M6843	V1.0
30	0805 - 100 Ohm	59M6851	V1.0
15	1206 - 220 Ohm	59M6970	V1.0
20	1.2kOhm through hole resistor 500mW, for LEDs	40M8586	V1.0
30	0805 - 10k - Precision (0.5%, 25ppm/C)	01P2111	V1.0
30	Switching Diode (1N4148)	35K9699	V1.0
10	1A Diode	58K9551	V1.0
120	0805 - 100nF - 50V	38K1694	V1.0
20	0805 - 1uF - 25V	96M1389	V1.0
10	0805 - 2.2uF - 25V	97K0636	V1.0
10	0805 - 0.01uF - 100V	96M1352	V1.0
30	0805 - 1000pF - 50V	06R3728	V1.0
10	0805 - 10pF - 100V	96K4767	V1.0
10	0805 - 1pF - 50V	06R3990	V1.0
20	0805 - 100pF - 50V	06R4000	V1.0
10	0805 - 0.33uF - 25V	06R3968	V1.0
10	Alum elect radial through hole - 100uF - 25V	38M3176	V1.0
10	0805- 1uH Inductor	95H1571	V1.0

ICs

Quantity	Desc and Manu Part #	Newark Part #	Notes
5	Quad comparator (LM339DT)	89K0700	V1.0
8	Analog Switch (ADG419BR)	59K1263	V1.0
4	5V regulator (L7805C-V)	89K1378	V1.0
5	Op Amp (LF356M)	41K2545	V1.0
5	Op Amp (LF347BD)	75C0685	V1.0
5	BJT NPN SOT-2 (BC846)	88H4564	V1.0
22	Op Amp (AD8676)	28M4146	V1.0
4	Op Amp (AD826)	82H2995	V1.0 For fast feedback
4	5V reference (MAX6250) - 0.1%	57K8971	V1.0
5	BJT PNP SOT-23 (BC856)	45J0600	V1.0

Connectors/Switches/Enclosure/Indicators/Test Points

Quantity	Desc and Manu Part #	Newark Part #	Notes
4	Box (Hammond 1402B)	83F8912	V1.0
1	Test points - Pack of 100	97H7019	V1.0
20	BNC, Bulkhead Jack, 50Ohm	42K7127	V1.1 (Used 96M8841 in V1.0)
32	PCB Mount Right Angle BNC, 50 Ohm	42K8698	V1.0
16	Nut for R/A BNC to Attach to Panel	78M7214	V1.0
16	Board mount BNC Lock Washer (1-1634817-0)	78M7215	V1.0 - not included with the BNC
4	DIP Switch (SPST)	14R4375	V1.0
4	Pushbutton for reset switch	03P2492	V1.0
16	DPDT Switch	84K8071	V1.0 (For panel, not included in schematic)
30	LED Indicator Lights, Red, 5mm	58K2487	V1.0
40	2 pos Molex Male	25C3832	V1.0
40	2 pos Molex Female	33C3219	V1.0
40	3 pos Molex Male	30C0862	V1.0
40	3 pos Molex Female	38C9135	V1.0
200	Molex Crimp	88C0996	V1.0
1	Row of 1x64 socket	04M2491	V1.0, For splitting apart to use for putting in through hole resistors and caps for servo tuning
2	2x20 breakaway pins	01J4536	V1.0
20	Jumpers	52F5498	V1.0

4	Mini Din 6pin Female	CP-2860-ND	V1.0, Note: Available from DigiKey Only
4	Surface Mount SPDT (CJS-1200TA)	563-1021-1-ND	V1.0 ONLY (Removed in V1.1), Available from DigiKey Only

Pots

Quantity	Desc and Manu Part #	Newark Part #	Notes
12	10k Panel Pots - 10turns (3590S-2-103L)	62K3206	V1.0 - Not on schematic - Pots for bias, offset and ramp
12	50k Sur Mount Trim Pot	63M1861	V1.1 (Used 52F6801 for V1.0)
8	20k Surface Mount Trim Pot	63M1857 (Digikey 987-1016-1-ND)	V1.1 (Used 60K7109 for V1.0)
8	50k Panel Pot	43K2396	V1.1 (For Current/PZT Gain control on the front panel)