

## Bill of Materials for PolyDAC(X) Component Kit Revision 3.3A

Item	Description	Qty	Designator	Package
	<b>CAPACITOR</b>			
1	33pF 5% Ceramic, Low K	6	C502, C522, C601, C611, C621, C631	RAD-0.2N
2	10nF 50V Polyester	16	C501, C511, C521, C531, C701, C702, C703, C704, C711, C712, C713, C714, C721, C722,	RAD-0.2
			C723, C724	RAD-0.2
3	100nF Decoupling Capacitor	30	C101, C104, C105, C106, C201, C204, C205, C206, C401, C402, C403, C404, C541, C542,	RAD-0.2N
			C543, C544, C641, C642, C643, C644, C645, C646, C647, C648, C731, C732, C733, C734,	RAD-0.2N
			C735, C736	RAD-0.2N
4	22uF 63V Electrolytic	3	C202, C203, C207	
	<b>CONNECTOR</b>			
5	IDC - 10-way Box Header	1	J102	2.54mm
6	IDC - 10-way IDC Socket	1	J102	2.54mm
7	MTA - Crimp to suit 0.156" Series MTA	4	J201	
8	MTA - 4-way 0.156" Straight, Locking Header	1	J201	3.96MM
9	MTA - 4-way 0.156" Crimp Housing	1	J201	3.96MM
10	8-pin IC Socket 0.3"	8	U101, U401, U402, U531, U601, U611, U621, U631	DIP-8-0.3
11	14-pin IC Socket 0.3"	4	U501, U701, U711, U721	DIP-14-0.3
12	16-pin IC Socket 0.3"	1	U404	DIP-16-0.3
13	24-pin IC Socket 0.6"	1	U403	DIP-24-0.6
14	40-pin IC Socket 0.6"	1	U102	DIP-40-0.6

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	<b>CRYSTAL</b>			
15	16MHz Oscillator Module	1	X101	DIL-8
	<b>DIODE</b>			
16	SIGNAL - BAT42, Schottky	1	D401	
17	REFERENCE - LM329 6V9 Precision	1	D531	TO-92
18	RECTIFIER - 1N4004 200V 1A	1	D201	DIODE-0.4
19	SIGNAL - 1N4148	1	D101	DIODE-0.3
	<b>LINEAR</b>			
20	TL074 Quad JFET Opamp	4	U501, U701, U711, U721	DIP-8 0.3"
21	6N138 - Opto-coupler	1	U101	
22	LF412 Dual Bi-FET Opamp	5	U531, U601, U611, U621, U631	DIP-8 0.3"
23	AD712 - Dual FET Opamp	1	U402	
24	ATMEGA16-16PI	1	U102	
25	78L05 5V 100mA Fixed Voltage Regulator	1	U201	
26	AD8300 - 12-bit Serial A/D Converter	1	U401	
	<b>INDUCTOR</b>			
27	1mH RF Choke	2	L201, L202	AXIAL-0.4

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	<b>LOGIC</b>			
28	CD4067 - Analog Multiplexer/Demultiplexer	1	U403	
29	CD4504 - Octal Buffer	1	U404	
	<b>RESISTOR</b>			
30	10R 1% 0.5W Metal Film	1	R416	AXIAL-0.4
31	56R 1% 0.5W Metal Film	1	R201	AXIAL-0.4
32	75R 1% 0.5W Metal Film	15	R501, R511, R521, R608, R618, R628, R638, R701, R702, R703, R704, R711, R712, R713,	AXIAL-0.4
			R714	AXIAL-0.4
33	100R 1% 0.5W Metal Film	1	R202	AXIAL-0.4
34	220R 1% 0.5W Metal Film	4	R101, R107, R108, R111	AXIAL-0.4
35	1K 1% 0.5W Metal Film	6	R104, R419, R801, R811, R821, R831	AXIAL-0.4
36	1K5 1% 0.5W Metal Film	1	R102	AXIAL-0.4
37	3K3 1% 0.5W Metal Film	5	R533, R802, R812, R822, R832	AXIAL-0.4
38	4K7 1% 0.5W Metal Film	3	R109, R412, R532	AXIAL-0.4
39	5 x 1K Commoned Resistor Network	1	R114	SIP-6
40	10K 1% 0.5W Metal Film	38	R418, R537, R601, R602, R603, R604, R605, R606, R607, R611, R612, R613, R614, R615,	AXIAL-0.4
			R616, R617, R621, R622, R623, R624, R625, R626, R627, R631, R632, R633, R634, R635,	AXIAL-0.4
			R636, R637, R803, R804, R813, R814, R823, R824, R833, R834	AXIAL-0.4
41	11K 1% 0.5W Metal Film	1	R414	AXIAL-0.4
42	11K5 1% 0.5W Metal Film	1	R413	AXIAL-0.4

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	<b>RESISTOR - continued</b>			
43	15K 1% 0.5W Metal Film	1	R112	AXIAL-0.4
44	22K 1% 0.5W Metal Film	1	R415	AXIAL-0.4
45	33K 1% 0.5W Metal Film	1	R110	AXIAL-0.4
46	47K 1% 0.5W Metal Film	4	R531, R534, R535, R536	AXIAL-0.4
47	4 x 1K Commoned Resistor Network	2	R113, R115	SIP-5
48	4 x 10K Commoned Resistor Network	1	R106	SIP-5
	<b>SWITCH</b>			
49	ROCKER - 4PST DIP	2	S101, S104	
	<b>TRANSISTOR</b>			
50	2N3904 NPN Transistor	5	Q101, Q801, Q811, Q821, Q831	TO-92
51	2N3906 PNP Transistor	1	Q102	TO-92
	<b>TRIMPOT</b>			
52	2K 21-Turn Vertical Cermet Trimpot - 64W	1	P401	
53	10K 21-Turn Vertical Cermet Trimpot - 64W	1	P531	
	<b>FIRMWARE</b>			
54	PolyDAC(X) Software	1	-	