







```
1: VOLTAGE CONTROLLED OSCILATOR Revised: Monday, August 25, 2003
 2: 200-1007
                     Revision: A
 3:
 4:
 5:
 6:
 7:
 8:
 9:
10: Bill Of Materials
                             August 25,2003
                                                  20:55:42 Page1
11:
12: Item
            Quantity
                       Reference
                                    Part
                                            Mouser Part Number
13: _
14:
                                        .luF
15: 1
        32 C1,C2,C3,C4,C5,C6,C7,C8,
                                                80-C410C104M5U
16:
           C9,C10,C13,C14,C15,C16,
17:
           C17,C18,C19,C20,C27,C28,
18:
           C29, C30, C31, C32, C41, C42,
19:
           C43,C47,C48,C49,C50,C51
          C11,C12 10uF
20: 2
       2
                            140-XRL35V10
21: 3
       1
           C44 .0022uF 23PS310
22: 4
       1
           C45 18pF
                       140-50N2-180J
23: 5
       1
           C46 .01uF
                       140-PF2A103J
24: 6
        1
           C53 .001uF 140-PF2A102J
25: 7
        2
           C54,C62 100pF
                            140-50P2-101K
           C55 .01uF
26: 8
        1
27: 9
        1
           C59 100pF
28: 10
       1
           C61 .1uF
       2
29: 11
           D2,D1
                    1N914
       2
30: 12
           D3,D4
                    1N751
       1
31: 13
           JP1 HEADER 5X2
       2
32: 14
           JP3,JP2 HEADER 4
33: 15
       1
           J1 PITCH1
               SAW
       1
34: 16
           J2
               PITCH2
35: 17
       1
           J3
               SYNC
36: 18
       1
           J4
           J5
37: 19
       1
               TRI
              LIMFM
38: 20
       1
           J6
39: 21
       1
           J7 PULSE
40: 22
       2
           J8,J10 PWM
       1
41: 23
           J9 SINE
42: 24 2
           Q1,Q2 2N3904 512-2N3904
43: 25
       4
           Q3,Q4,Q7,Q8 2N3906 512-2N3906
       1
44: 26
           Q5 J111
                       J111
45: 27
       1
           Q6 MAT04
46: 28
       23 R12,R19,R25,R27,R32,R55,
                                        10K 271-10K
47:
            R57,R60,R62,R63,R83,R103,
48:
            R105,R106,R107,R108,R111,
49:
           R112,R113,R114,R115,R119,
50:
           R131
51: 29
        21 R13,R17,R20,R28,R29,R30,
                                        100K
                                                271-100K
           R34,R35,R37,R50,R53,R66,
52:
53:
           R70,R71,R72,R73,R74,R77,
54:
           R89, R99, R116
55: 30
       10 R14,R23,R41,R44,R51,R52,
                                        1K 271-1K
56:
           R64,R76,R90,R101
57: 31
       1
           R15 20K 652-3386P-1-203
       2
58: 32
           R21,R16 10 271-10
59: 33
       2
           R81,R18 30K 271-30K
60: 34
       1
           R22 24.9K
                        271-24.9K
61: 35
       1
           R24 100 271-100
       1
62: 36
           R26 3.3K
                        271-3.3K
63: 37
       1
           R31 499K
                        271-499K
                                20K 594-74W-20K
64: 38
       4
           R33,R47,R67,R127
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65: 39 1
           R38 2.2M
                      271-2.2M
66: 40 2
           R122,R39
                     49.9K 271-49.9K
67: 41 10 R43,R87,R98,R123,R124, 1M 271-1M
68:
           R125,R126,R128,R132,R133
69: 42
      4
           R46,R120,R129,R130 4.99K
                                     271-4.99K
70: 43 1 R48 10M
71: 44 1 R49 1K 594-74W-1K
72: 45 1
          R56 4.02K 271-4.02K
73: 46 1 R61 39K 271-39K
74: 47 1 R65 20K 271-20K
75: 48 1
          R68 68K 271-68K
76: 49 3 R75,R85,R100 2K 271-2K
77: 50 1
          R88 6.8M
78: 51 1
          R92 51
          R95 100 594-74W-100
79: 52 1
80: 53 2 R121,R97
                     50K 594-74W-50K
                100K
81: 54 1 R102
82: 55 1 R104
                  10K
83: 56 2 R109,R118
                      15K 271-15K
84: 57 2
          R117,R110
                      10K 594-74W-10K
85: 58 3
          U2,U6,U7
                      TL072 511-TL072
          U3 LM4041CZ-ADJ 51
U4 TL071 511-TL071
U5 LM311 511-LM311
86: 59 1
                             511-LM336Z
87: 60 1
88: 61 1
89: 62 10 U6,U7,U9,U10,U13,U17,U18, TL072
90:
           U19,U20,U21
91: 63 1
          U8 lm13700 LM13700N
92: 64 1 U15 CA3280E
93: 65 1 U16 TL071
94:
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200-1007-05 REV A LEGEND COMPONET SIDE 200-1007-06 REV A DRILL/FAB

3DIZ TH3HO9MOO A V3R SO-7001-002 200-1007-01 REV A CIRCUIT SIDE

