

**Agilent 6032A  
Component Level  
Information**

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# Agilent 6032A

## System Autoranging DC Power Supply

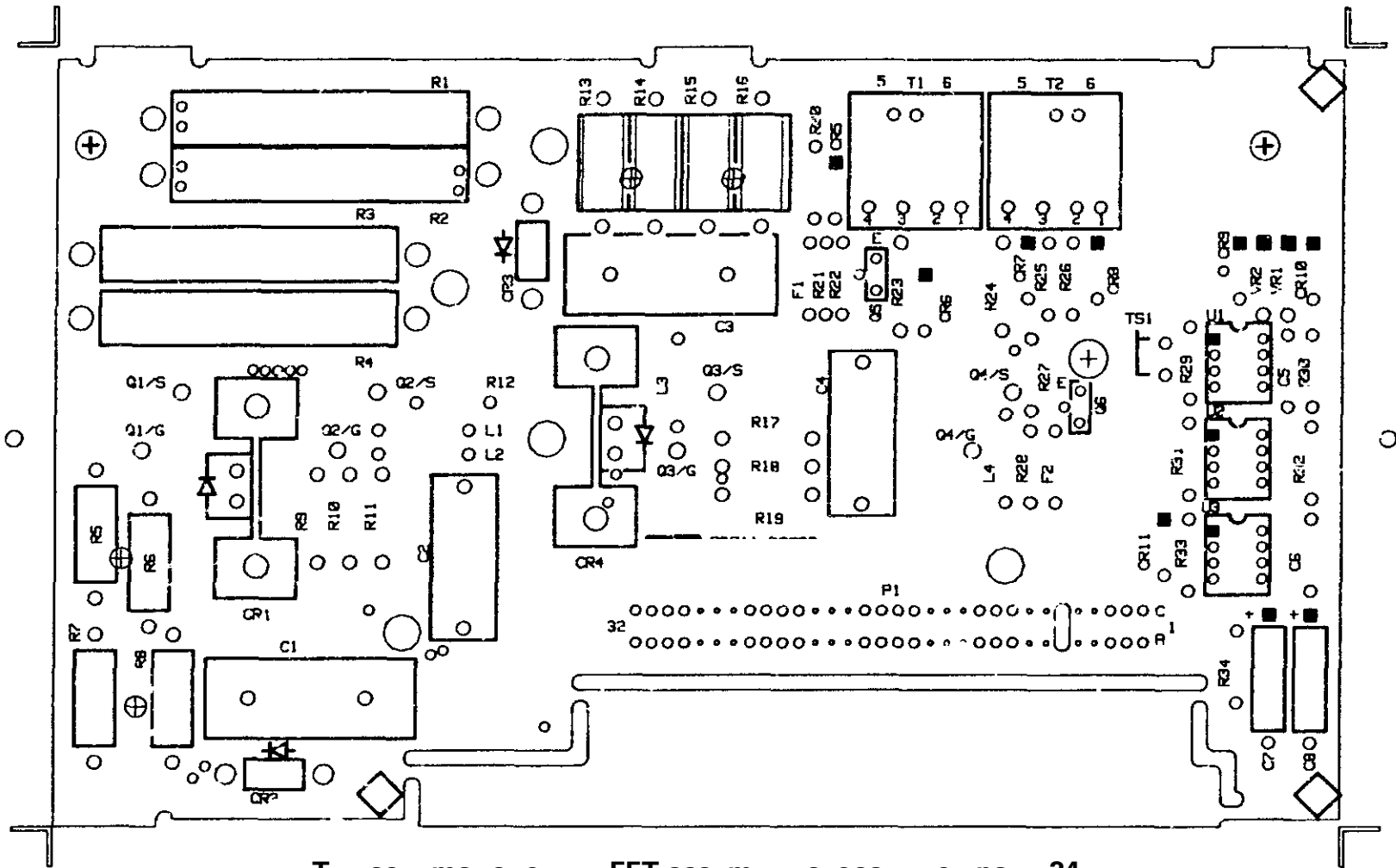
### Component Level Information

**Information in this packet applies to the following assemblies:**

- 1. 06011-60023 PC Assembly - FET Board**
- 2. 06031-60020 PC Assembly - Front Panel Board**
- 3. 06032-60022 PC Assembly - Control Board**
- 4. 06032-60029 PC Assembly - Diode Board**
- 5. 06032-60032 PC Assembly - Mother, 60V, Board**
- 6. 5063-3463 PC Assembly - GPIB Board**

**The following is included in this packet:**

- 1. Component Locators**
- 2. Schematics**
- 3. Parts lists with Agilent and manufacturer's part numbers**



T sc ma c o FET ass m s oca o pa 34,  
 pa 1 o 2, Ma oa PC ass m .

Agilent 6032A  
 System Autoranging DC Power  
 Supply

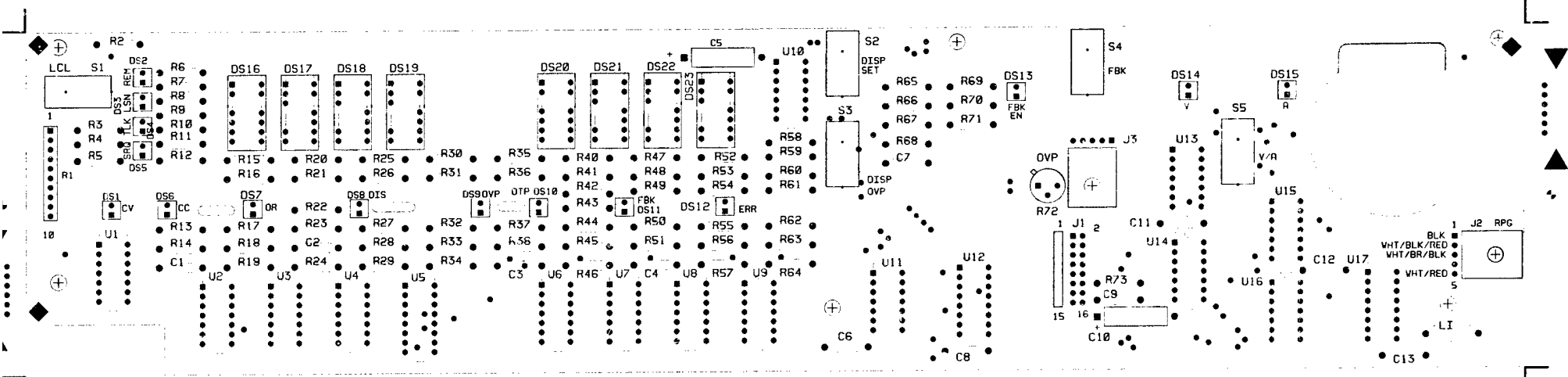
06011-60023  
 FET PC Assembly  
 Component Locator

**06011-60023 FET PC Assembly Parts List**

| Reference Designator | QTY | Agilent P/N | Description                              | MPN  | Manufacturer  |
|----------------------|-----|-------------|--|--|---|
| C001, 3              | 2   | 0160-4569   | CAP-FXD 0.01uF +-10pct 800 V POLYP-FL    | 715P10398LD3                                     | SB ELECTRONICS  |
| C002, 4              | 2   | 0160-5981   | CAP-FXD 0.047uF +-10pct 630 V POLYP-FL   | FKP1.047UF630V<br>MKP1841-347-63                 | WIMA<br>VISHAY  |
| C005, 6              | 2   | 0160-4835   | CAP-FXD 0.1uF +-10pct 50 V CER X7R       | C420C104K5R5CA<br>SA105C104KAAH<br>SA105C104KAAH | KEMET ELECTRONICS<br>AVX<br>KYOCERA                               |
| C007                 | 1   | 0180-4132   | CAP-FXD 6.8uF +-10pct 35 V TA            | TARW685K035<br>T322D685K035AS                    | AVX<br>KEMET ELECTRONICS  |
| C008                 | 1   | 0180-0228   | CAP-FXD 22uF +-10pct 15 V TA             | TAAB226K016<br>T110B226K015AS<br>TAAB22K16RX     | AVX<br>KEMET ELECTRONICS<br>STC                                   |
| CR001, 4, MR2406F    | 2   | 5060-9667   | ASSY-HEAT SINK                           |  |   |
| CR001, 4, MR2406F a  | 1   | 0361-1641   | EYELET-RLD-FLG .121-OD .187-LG .0095-THK | GS 4-6 STEEL-TIN PLATE                           | STIMPSON EDWIN B  |
| CR001, 4, MR2406F b  | 1   | 1205-0398   | HEAT SINK SGL PLSTC-PWR-CS               | 035560   | AAVID THERMALLOY  |
| CR001, 4, MR2406F c  | 1   | 1901-1302   | DIODE-PWR RECT 600V 15A 60NS TO-220AC    | MUR1560G   | ON SEMICONDUCTOR  |
| CR002, 3             | 2   | 1901-1087   | DIODE-PWR RECT 600V 3A 200NS             | GI856<br>MR856RLG                                | VISHAY<br>ON SEMICONDUCTOR  |
| CR005-11             | 7   | 1901-0050   | DIODE-SWITCHING 80V 200MA 2NS DO-35      | D3D7_FDH6308C                                    | FAIRCHILD SEMICONDUCTOR   |
| F001, 2              | 2   | 2110-0671   | FUSE-SUBMINIATURE .125A 125V NTD AX      | 025101.5___L                                     | LITTELFUSE  |
| HEATSINK             | 1   | 06032-20002 | HEAT-SINK,FET,R                          |  |   |
| HEATSINK             | 1   | 06032-20001 | HEAT-SINK,FET F                          |  |   |
| L001-4               | 4   | 9100-1610   | INDUCTOR RF-CH-MLD 150nH +-20pct         | 1537-00<br>15M150M<br>IM-4 .15UH 20%             | AMERICAN PRECISION<br>INDUSTRIES<br>GOWANDA ELECTRONICS<br>VISHAY |
| P001                 | 1   | 1252-1053   | CONN-POST TYPE 5.08-PIN-SPCG-MTG-END     | 86094648813765V1                                 | FCI FRAMATOME BERG  |
| Q001-4               | 4   | 1855-1214   | FET, N-CHAN                              | 94-6032  | INTERNATIONAL RECTIFIER   |
| Q005, 6              | 2   | 1854-0585   | TRANSISTOR NPN SI PD=1.5W FT=50MHZ       | MJE182   | ON SEMICONDUCTOR  |
| R001-4               | 4   | 0811-1065   | RESISTOR 150 +-5pct 10W PWN TC=0+-20     | NS-10_150_5%<br>NT-10-78                         | VISHAY<br>TT ELECTRONICS  |
| R001-4 BACKLOAD      | 8   | 0360-1843   | TERMINAL-STUD DBL-TUR SWGFRM-MTG         | T16-425  | AUTO-SWAGE PROD   |
| R005-8, 13-16        | 8   | 0698-3609   | RESISTOR 22 +-5pct 2W MO TC=0+-200       | FP69 22R0 5%<br>GS-322R0<br>MO2C__220J           | VISHAY<br>TT ELECTRONICS<br>KOA                                   |
| R009-11, 17-19       | 6   | 0698-5139   | RESISTOR 3.9 +-5pct .5W CC TC=0+412      |  |   |

**06011-60023 FET PC Assembly Parts List**

| Reference Designator | QTY | Agilent P/N | Description   | MPN  | Manufacturer   |
|----------------------|-----|-------------|---|--|--|
| R012, 25             | 2   | 0757-0466   | RESISTOR 110K +-1pct .125W TF TC=0+-100   | 5053HD110K0F<br>CMF-551103FT-1<br>NK4H.125W1%+/-<br>100PPM1103 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS   |
| R020, 27             | 2   | 0757-0379   | RESISTOR 12.1 +-1pct .125W TF TC=0+-100   | 5053HD12R10F<br>CMF-5512R1FT-1<br>NK4H.125W1%+/-<br>100PPM12R1 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS   |
| R021, 28             | 2   | 0683-1505   | RESISTOR 15 +-5pct .25W CF TC=0-400   | CF 14 15 5%  | ASJ  |
| R022, 26             | 2   | 0683-1815   | RESISTOR 180 +-5pct .25W CF TC=0-400  | CF1/4J181T   | ASJ  |
| R023, 24             | 2   | 0686-2005   | RESISTOR 20 +-5pct .5W CC TC=0+412  |  |  |
| R029-33              | 5   | 0683-0475   | RESISTOR 4.7 +-5pct .25W CF TC=0-400  | CF 1/4 C ___ 4R7 J<br>CF 14 4R 5%<br>RC1/4 4R7 5%              | KOA<br>ASJ<br>SEI ELECTRONICS  |
| R034                 | 1   | 0683-0275   | RES-FXD 2.7 +-5PCT .25W CF TC 0-400   | LCA0207 2.7 5%<br>CF1/4-2R7J<br>CF1/4C ___ 2R7J                | VISHAY<br>ASJ<br>KOA   |
| SCREW M3.5X0.6       | 10  | 0515-0212   | SCREW-MACH M3.5 X 0.6 6MM-LG PAN-HD ;<br>SCREW-MACHINE ; M3.5 X 0.60; 6 MM LONG | 0515-0212<br>0515-0212<br>0515-0212<br>0515-0212               | MID-CONTINENT SCREW PROD<br>ILLINOIS TOOL WORKS<br>LONG-LOK FASTENER<br>TEXTRON            |
| SCREW M4X0.7         | 7   | 0515-0413   | SCREW-MACH M4 X 0.7 6MM-LG PAN-HD   | 0515-0413<br>0515-0413<br>0515-0413<br>0515-0413<br>0515-0413  | BOSSARD<br>ILLINOIS TOOL WORKS<br>LONG-LOK FASTENER<br>MID-CONTINENT SCREW PROD<br>TEXTRON |
| SOCKET PIN           | 8   | 1252-0093   | CONNECTOR-SGL CONT SKT .04-IN-BSC-SZ RND  | 09-9158-1-0619   | CONCORD ELECTRONICS  |
| STAND OFF            | 7   | 0380-1524   | STANDOFF-HEX 8-MM-LG M4.0 X 0.7-THD ;<br>STANDOFF-HEX                           | 0380-1524<br>0380-1524<br>0380-1524                            | LYN-TRON<br>RAF ELECTRONIC<br>HARDWARE/R&R MF<br>BOSSARD                                   |
| T001                 | 1   | 06011-80091 | XFMR-DRIVER   |  |  |
| T002                 | 1   | 06011-80095 | XFMR-DRIVER   |  |  |
| TS001 BACKLOAD       | 1   | 3103-0081   | SWITCH-THRM FXD +202F 15A CL-ON-RISE  | 2455R-87-247   | HONEYWELL  |
| U001-3               | 3   | 1820-1050   | IC INTERFACE DRVR BIPOLAR NOR DUAL  | SN75454BP  | TEXAS INSTRUMENTS  |
| VR001, 2             | 2   | 1902-0779   | DIODE-ZNR 11.8V 5pct DO-15 PD=1W<br>TC=+.064pct                                 | DZ721113K  | MICROSEMI  |

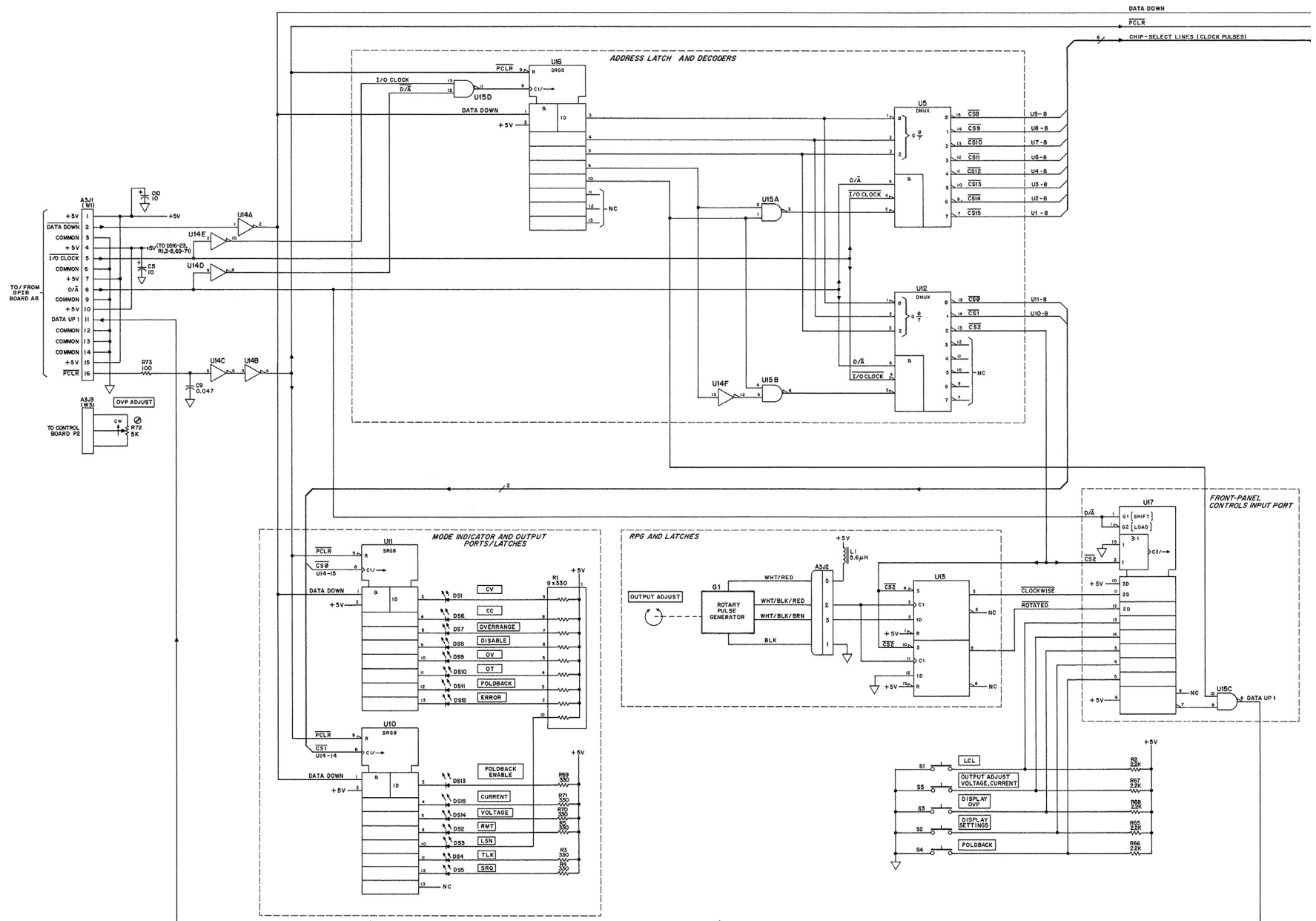


06031-20020

11/29/83

**Agilent 6032A  
System Autoranging DC Power  
Supply**

**06031-60020  
Front Panel PC Assembly  
Component Locator**



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System Autoranging DC Power  
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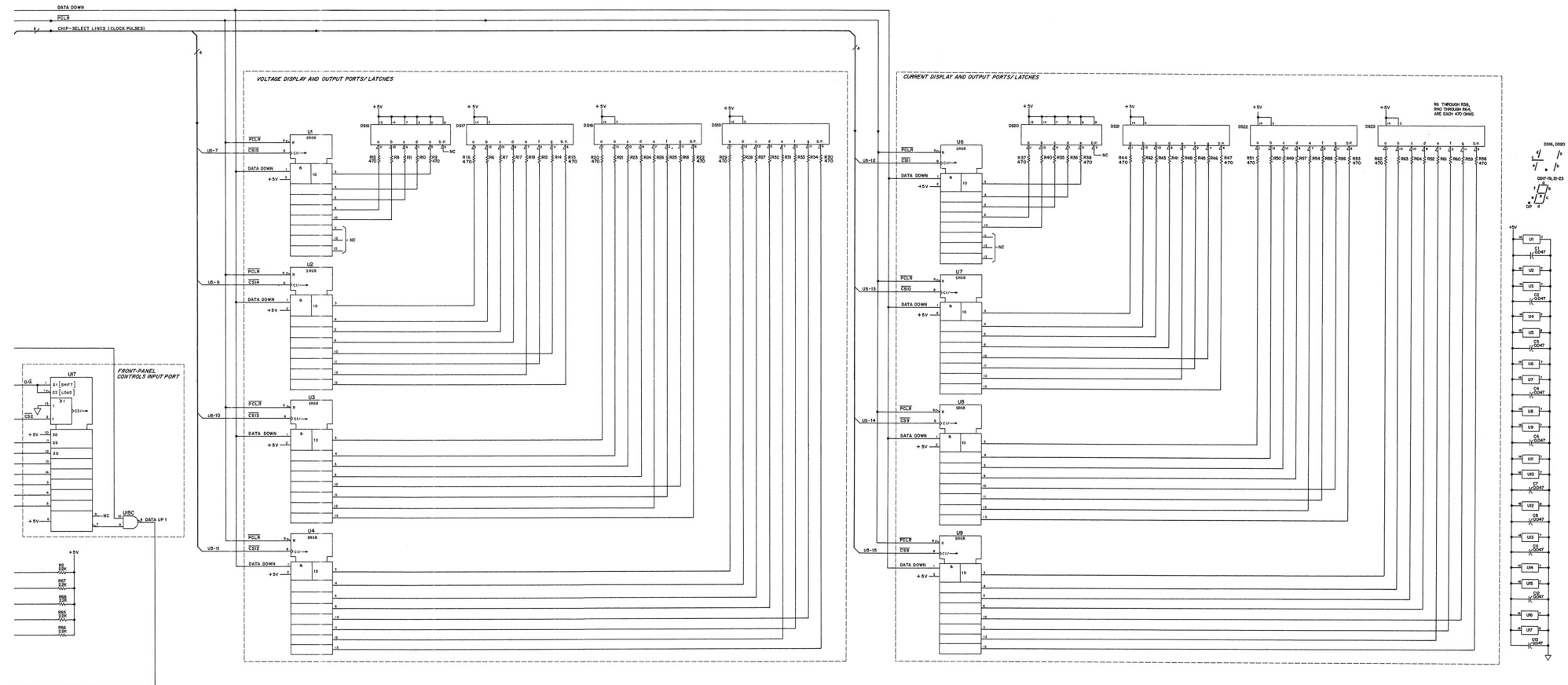


Figure 6-12. Front Panel Board Schematic Diagram

Agilent 6032A  
System Autoranging DC Power  
Supply

06031-60020  
Front Panel PC Assembly  
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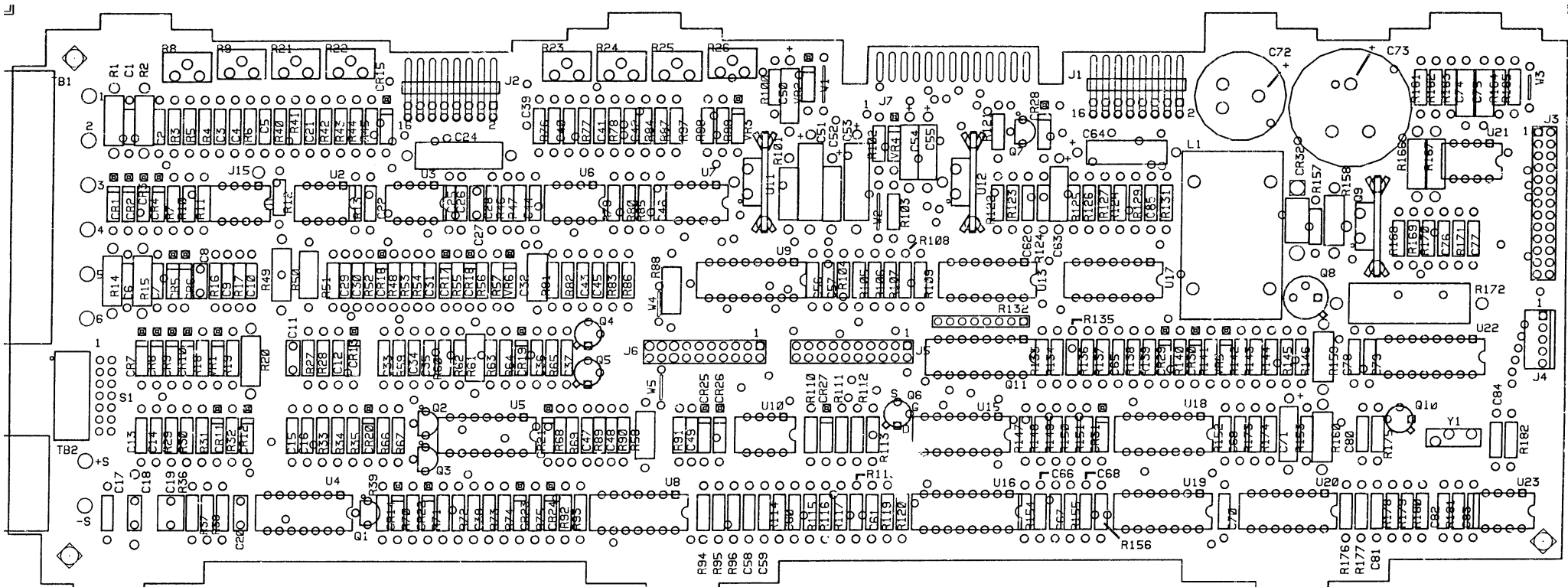


**06031-60020 Front Panel PC Assembly Parts List**

| Reference Designator    | Qty | Agilent P/N | Description                              | MPN  | Manufacturer  |
|-------------------------|-----|-------------|--|--|---|
| DS001-6, 13-15 PRE-ASSY | 9   | 1990-0835   | LED-LAMP LM-INT=4.2MCD IF=30MA-MAX BVR=5 | HLMP-1503-D0000                                      | AVAGO TECHNOLOGIES  |
| S001-5 BACKLOAD         | 5   | 5060-9436   | SWITCH-PB SPST-NO MOM                    |  |   |
| C001-4, 6-9, 11-13      | 11  | 0160-5422   | CAP-FXD 0.047uF +-20pct 50 V CER X7R     | C420C473M5R5CA<br>DA13X7R1H473M<br>SA205C473MAAH     | KEMET ELECTRONICS<br>TDK<br>AVX                                   |
| C005, 10                | 2   | 0180-4136   | CAP-FXD 10uF +-10pct 20 V TA             | TARS106K020<br>T322C106K020AS                        | AVX<br>KEMET ELECTRONICS  |
| R002, 65-68             | 5   | 0683-2225   | RES-FXD 2.2KOHM +-5PCT .25W TC 0-400     | CF1/4-222J<br>CF1/4C__222J                           | ASJ<br>KOA  |
| R003-5, 69-71           | 6   | 0683-3315   | RESISTOR 330 +-5pct .25W CF TC=0-450     | CF 14 33R 5%<br>CR-25PS-.330                         | ASJ<br>ROYAL ELECTRONIC FACTORY                                   |
| L001                    | 1   | 9100-1618   | INDUCTOR RF-CH-MLD 5.6uH +-10pct         | 1537-30<br>15M561K<br>IM-4 5.6UH 5%                  | AMERICAN PRECISION<br>INDUSTRIES<br>GOWANDA ELECTRONICS<br>VISHAY |
| R073                    | 1   | 0683-1015   | RES-FXD 100 OHM +-5PCT .25W CF TC 0+-300 | CF1/4-101J<br>CF1/4C__101J                           | ASJ<br>KOA  |
| R006-38, 40-64          | 58  | 0683-4715   | RESISTOR 470 +-5pct .25W CF TC=0-400     | CF 14 47R 5%<br>R25X-J-471                           | ASJ<br>ROHM   |
| U017                    | 1   | 1820-4988   | IC-74HCT165N                             | 74HCT165N<br>74HCT165N                               | PHILIPS<br>NXP  |
| U001-4, 6-11, 16        | 11  | 1820-3180   | IC SHF-RGTR CMOS/HC SYNCHRO SERIAL-IN    | MM74HC164N   | FAIRCHILD SEMICONDUCTOR   |
| U005, 12                | 2   | 1820-3847   | IC DCDR-DEMURX CMOS/HCT BIN 3-TO-8-LINE  | 74HCT138N<br>MM74HCT138N<br>SN74HCT138N<br>74HCT138N | PHILIPS<br>FAIRCHILD SEMICONDUCTOR<br>TEXAS INSTRUMENTS<br>NXP    |
| U014                    | 1   | 1820-3629   | IC INV CMOS/HCT HEX                      | MM74HCT04N   | FAIRCHILD SEMICONDUCTOR   |
| U013                    | 1   | 1820-3081   | IC FF CMOS/HC D-TYPE POS-EDGE-TRIG       | MM74HC74AN<br>SN74HC74N<br>MC74HC74ANG               | FAIRCHILD SEMICONDUCTOR<br>TEXAS INSTRUMENTS<br>ON SEMICONDUCTOR  |

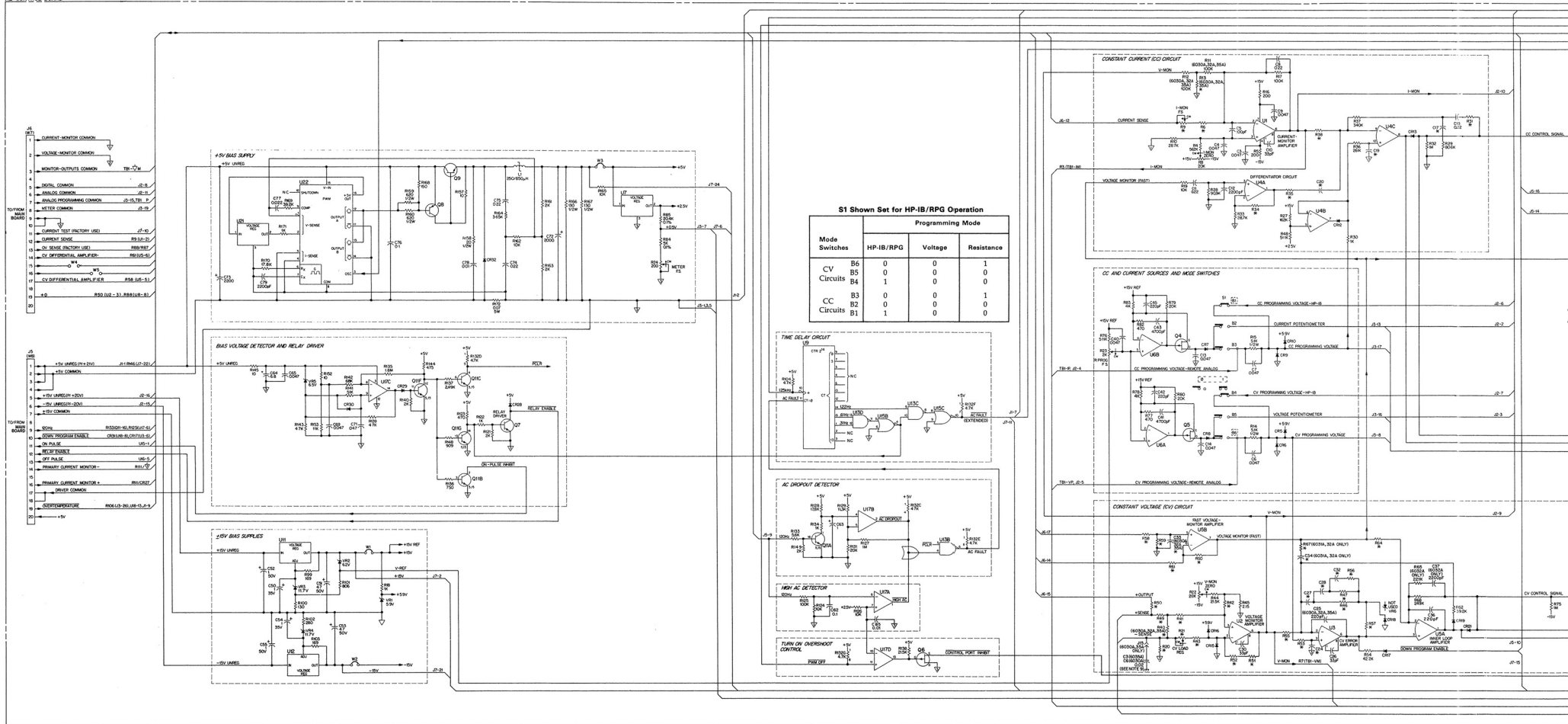
**06031-60020 Front Panel PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                            | MPN  | Manufacturer  |
|----------------------|-----|-------------|--|--|---|
| U015                 | 1   | 1820-2922   | IC GATE CMOS/HC NAND QUAD 2-INP        | 74HC00N<br>MM74HC00N<br>MC74HC00ANG<br>74HC00N | PHILIPS<br>FAIRCHILD SEMICONDUCTOR<br>ON SEMICONDUCTOR<br>NXP |
| R072                 | 1   | 2100-1775   | RESISTOR-TRMR 5K 5pct WW TOP-ADJ 1-TRN | CT-100-4-5K<br>3345P-CL4-502                   | NEOHM<br>BOURNS   |
| R001                 | 1   | 1810-0272   | NET-RES 9 330.0 OHM 10-PIN             | 4310R-94Y-331<br>750-101<br>MSP10A01-331G      | BOURNS<br>TT ELECTRONICS<br>VISHAY                            |
| DS007-12 PRE-ASSY    | 6   | 1990-0831   | LED-LAMP LUM-INT=9.2MCD IF=20MA-MAX    | HLMP-1401-EF000                                | AVAGO TECHNOLOGIES  |
| J002, 3              | 2   | 1251-8675   | CONN-POST TYPE .100-PIN-SPCG-MTG-END   | 1107-12-105-01                                 | METHODE ELECTRONICS   |
| J001                 | 1   | 1251-8417   | CONN-POST TYPE .100-PIN-SPCG-MTG-END   | 68021-616HLF                                   | FCI FRAMATOME BERG  |



**Agilent 6032A  
System Autoranging DC Power  
Supply**

**06032-60022  
Control PC Assembly  
Component Locator**



**S1 Shown Set for HP-IB/RPG Operation**

| Mode Switches | Programming Mode |         |            |
|---------------|------------------|---------|------------|
|               | HP-IB/RPG        | Voltage | Resistance |
| CV B6         | 0                | 0       | 1          |
| B5            | 0                | 0       | 0          |
| B4            | 1                | 0       | 0          |
| CC B3         | 0                | 0       | 1          |
| B2            | 0                | 0       | 0          |
| B1            | 1                | 0       | 0          |

**Agilent 6032A**  
**System Autoranging DC Power**  
**Supply**

**06032-60022**  
**Control PC Assembly**  
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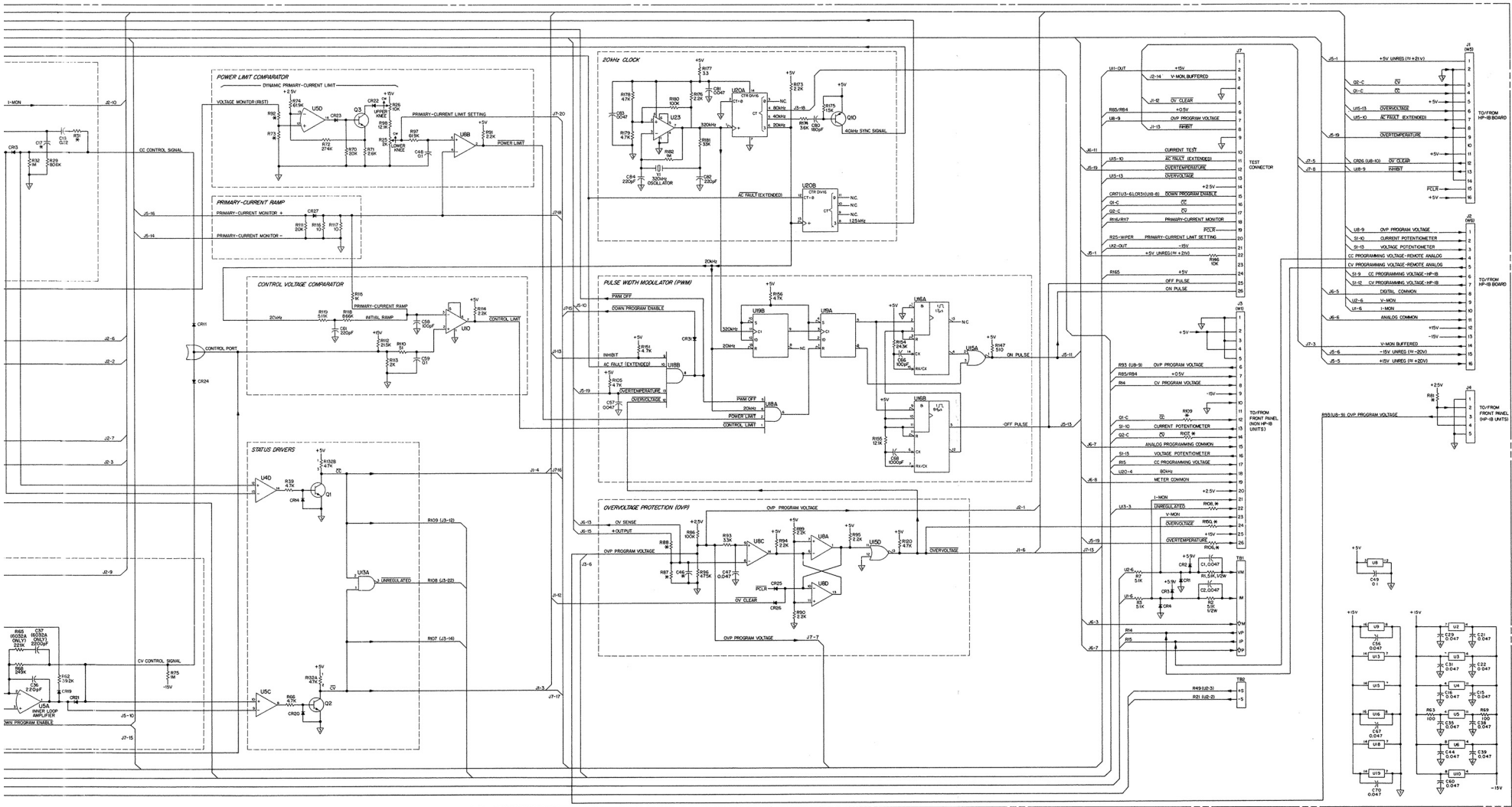


Figure 6-11. Control Board Schematic Diagram

**Agilent 6032A  
System Autoranging DC Power  
Supply**

**06032-60022 Control PC Assembly Parts List**

| Reference Designator  | Qty | Agilent P/N | Description                            | MPN   | Manufacturer  |
|---|-----|-------------|--|---|---|
| A2J1, A2J2  | 2   | 1251-8417   | CONN-POST TYPE .100-PIN-SPCG-MTG-END   | 68021-616HLF  | FCI FRAMATOME BERG                                  |
| A2J4  | 1   | 1251-8676   | CONN-POST TYPE .100-PIN-SPCG-MTG-END   | 1107-8-105-01   | METHODE ELECTRONICS                                 |
| A2J5, A2J6  | 2   | 1251-5240   | CONN-HDR VERT 20-PIN 2.54 MM 2ROW      | 67996-120HLF  | FCI FRAMATOME BERG                                  |
| C001-4, 6, 7, 9, 13-16, 21, 22, 29, 31, C035, 38-40, 44, 47, 56, 57, 60, 65, C067, 69, 70, 81, 83 | 30  | 0160-5422   | CAP-FXD 0.047uF +-20pct 50 V CER X7R   | C420C473M5R5CA<br>DA13X7R1H473M<br>SA205C473MAAH                  | KEMET ELECTRONICS<br>TDK<br>AVX                     |
| C005, 58, 66  | 3   | 0160-4801   | CAP-FXD 100pF +-5pct 100 V CER C0G     | C410C101J1G5CA<br>SA102A101JAAH<br>SA102A101JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C008, 11, 18, 20, 27  | 5   | 0160-5892   | CAP-FXD 0.22uF +-10PCT 63V POLYE-MET   | MKT 1817 422 065<br>MMK5224K63J01L4 BULK                          | VISHAY<br>EVOX/RIFA                                 |
| C010, 26, 30  | 3   | 0160-4807   | CAP-FXD 33pF +-5pct 100 V CER C0G      | C410C330J1G5CA<br>SA102A330JAAH<br>SA102A330JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C012, 37, 79  | 3   | 0160-4830   | CAP-FXD 2200pF +-10pct 100 V CER X7R   | C410C222K1R5CA<br>SA101C222KAAH<br>SA101C222KAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C017, 77  | 2   | 0160-4833   | CAP-FXD 0.022uF +-10pct 100 V CER X7R  | C420C223K1R5CA<br>SA201C223KAAH<br>SA201C223KAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C019  | 1   | 0160-5534   | CAP-FXD 0.1uF +-10pct 63 V POLYE-MET   | MKS 2<br>MKT1817-410/065<br>MMK5104K63J01L6                       | WIMA<br>VISHAY<br>EVOX/RIFA                         |
| C024  | 1   | 0160-0162   | CAP-FXD 0.022uF +-10pct 200 V POLYE-FL | WMC2S22-F<br>HEW-238T-22NF+/-<br>10%200V                          | CORNELL-DUBILIER<br>ELECTRONICS<br>AMERICAN SHIZUKI |
| C025, 36, 42, 45, 61, 82, 84  | 7   | 0160-4812   | CAP-FXD 220pF +-5pct 100 V CER C0G     | C410C221J1G5CA<br>SA101A221JAAH<br>SA101A221JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C028  | 1   | 0160-4834   | CAP-FXD 0.047uF +-10pct 100 V CER X7R  | C430C473K1R5CA<br>DA13X7R2A473K<br>SA301C473KAAH<br>SA301C473KAAH | KEMET ELECTRONICS<br>TDK<br>AVX<br>KYOCERA          |

### 06032-60022 Control PC Assembly Parts List

| Reference Designator     | Qty | Agilent P/N | Description                                | MPN   | Manufacturer  |
|--------------------------|-----|-------------|--|---|---|
| C032                     | 1   | 0160-5644   | CAP-FXD 0.033uF +-10pct 50 V CER X7R       | C420C333K5R5CA<br>SA205C333KAAH                                   | KEMET ELECTRONICS<br>AVX                            |
| C033, 41, 43             | 3   | 0160-4831   | CAP-FXD 4700pF +-10pct 100 V CER X7R       | C410C472K1R5CA<br>SA101C472KAAH<br>SA101C472KAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C034, 48, 49, 59, 62, 76 | 6   | 0160-4835   | CAP-FXD 0.1uF +-10pct 50 V CER X7R         | C420C104K5R5CA<br>SA105C104KAAH<br>SA105C104KAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C046                     | 1   | 0160-5166   | CAP-FXD 0.015uF +-20pct 100 V CER X7R      | C420C153M1R5CA<br>DA13X7R2A153M<br>SA201C153MAAH<br>SA201C153MAAH | KEMET ELECTRONICS<br>TDK<br>AVX<br>KYOCERA          |
| C050, 54                 | 2   | 0180-4129   | CAP-FXD 1uF +-10pct 35 V TA                | TARR105K035<br>T322B105K035AS                                     | AVX<br>KEMET ELECTRONICS                            |
| C051, 53                 | 2   | 0180-1731   | CAP-FXD 4.7uF +-10pct 50 V TA              | T110B475K050AS<br>TAAB4R7K50RX                                    | KEMET ELECTRONICS<br>STC                            |
| C052, 55                 | 2   | 0180-0230   | CAP-FXD 1uF +-20pct 50 V TA                | T110A105M050AS<br>TAAA1R0M50RX                                    | KEMET ELECTRONICS<br>STC                            |
| C063                     | 1   | 0180-1980   | CAP-FXD 1uF +-5pct 35 V TA                 | T110A105J035AS  | KEMET ELECTRONICS                                   |
| C064                     | 1   | 0180-4132   | CAP-FXD 6.8uF +-10pct 35 V TA              | TARW685K035<br>T322D685K035AS                                     | AVX<br>KEMET ELECTRONICS                            |
| C068                     | 1   | 0160-4822   | CAP-FXD 1000pF +-5pct 100 V CER COG        | C420C102J1G5CA<br>SA201A102JAAH<br>SA201A102JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA                 |
| C071                     | 1   | 0180-0376   | CAP-FXD 0.47uF +-10pct 35 V TA             | T110A474K035AS<br>TAAA0R47K35RX                                   | KEMET ELECTRONICS<br>STC                            |
| C072                     | 1   | 0180-2624   | CAP-FXD 2000uF +75pct -10pct 10 V AL-ELCTL | D76329<br>UPT 1021  | NIPPON CHEMI-CON<br>CORNELL-DUBILIER<br>ELECTRONICS |

### 06032-60022 Control PC Assembly Parts List

| Reference Designator                   | Qty | Agilent P/N | Description                                 | MPN  | Manufacturer  |
|--|-----|-------------|---|--|---|
| C073                                   | 1   | 0180-3407   | CAP-FXD 2200uF +50pct -10pct 35 V AL-ELCTL  | 0180-3407<br>0180-3407<br>0180-3407<br>55D105    | CORNELL-DUBILIER<br>ELECTRONICS<br>VISHAY BC COMPONENTS<br>VISHAY<br>NIPPON CHEMI-CON |
| C074, 75                               | 2   | 0160-5098   | CAP-FXD 0.22uF +-10pct 50 V CER X7R         | C440C224K5R5CA<br>SA405C224KAAH<br>SA405C224KAAH | KEMET ELECTRONICS<br>AVX<br>KYOCERA   |
| C078, 85                               | 2   | 0160-4832   | CAP-FXD 0.01uF +-10pct 100 V CER X7R        | C410C103K1R5CA<br>SA101C103KAAH<br>SA101C103KAAH | KEMET ELECTRONICS<br>AVX<br>KYOCERA   |
| C080                                   | 1   | 0160-4813   | CAP-FXD 180pF +-5pct 100 V CER C0G          | C410C181J1G5CA<br>SA101A181JAAH<br>SA101A181JAAH | KEMET ELECTRONICS<br>KYOCERA<br>AVX   |
| CR001-6, 9, 10, 12,<br>15, 16, 19      | 12  | 1901-0033   | DIODE-GEN PRP 180V 200MA DO-35              | 1MD2-FDH3369C                                    | FAIRCHILD SEMICONDUCTOR   |
| CR007, 8, 11, 13, 14,<br>17, 18, 20-31 | 19  | 1901-0050   | DIODE-SWITCHING 80V 200MA 2NS DO-35         | D3D7_FDH6308C                                    | FAIRCHILD SEMICONDUCTOR   |
| CR032                                  | 1   | 1901-0992   | DIODE-SCHOTTKY 1N5822 40V 3A                | 1N5822G<br>1N5822                                | ON SEMICONDUCTOR<br>VISHAY  |
| J003                                   | 1   | 1251-7743   | CONN-POST TYPE .100-PIN-SPCG-MTG-END        | 821-A026P-AMA00<br>2-1761603-9                   | AMPHENOL<br>TYCO INTERNATIONAL  |
| J015                                   | 1   | 1251-0600   | CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ       | 16-06-0034<br>928-196-004140<br>MM 600G          | MOLEX<br>TEXTRON<br>MILL-MAX  |
| L001                                   | 1   | 06023-80090 | CHOKE-BIAS                                  |  |   |
| Q001, 2                                | 2   | 1854-0215   | TRANSISTOR NPN SI TO-92 PD 625MW FT 300     | 2N3904<br>2N3904<br>2N3904                       | CENTRAL SEMICONDUCTOR<br>ROHM<br>FAIRCHILD SEMICONDUCTOR                              |
| Q003, 7                                | 2   | 1854-0583   | TRANSISTOR NPN SI TO-92 PD=310MW            |  |   |
| Q004-6                                 | 3   | 1855-0413   | TRANSISTOR J-FET P-CHAN D-MODE<br>TO-18 SI  | 2N5116   | VISHAY  |
| Q008                                   | 1   | 1853-0012   | TRANSISTOR PNP 2N2904A SI TO-39<br>PD=600MW | 2N2904A  | CENTRAL SEMICONDUCTOR   |
| Q008a PRE-ASSY                         | 1   | 1200-0181   | INSULATOR-XSTR NYLON WHITE                  | 7717-5N  | AAVID THERMALLOY  |



**06032-60022 Control PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                                   | MPN  | Manufacturer                                       |
|----------------------|-----|-------------|---|--|--|
| Q010                 | 1   | 1853-0036   | TRANSISTOR PNP SI TO-92 PD 625MW<br>FT 250MHZ | 2N3906<br>2N3906   | CENTRAL SEMICONDUCTOR<br>FAIRCHILD SEMICONDUCTOR   |
| Q011                 | 1   | 1858-0023   | TRANSISTOR ARRAY 16-PIN PLSTC DIP             |  |  |
| R001, 2, 14, 15      | 4   | 0686-5125   | RESISTOR 5.1K +-5pct .5W CC TC=0+647          |  |  |
| R003, 7              | 2   | 0683-5125   | RESISTOR 5.1K +-5pct .25W CF TC=0-400         | CF1/4W5.1K 5%  | ASJ  |
| R004                 | 1   | 0757-0483   | RESISTOR 562K +-1pct .125W TF TC=0+-100       | B0207C562K0F<br>CMF-555623FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R005, 16             | 2   | 0683-2015   | RESISTOR 200 +-5pct .25W CF TC=0-400          | CF 14 20R 5%   | ASJ  |
| R006                 | 1   | 0698-7631   | RESISTOR 2.87K +-1pct .125W TF TC=0+-25       | B0207E2K870F<br>CMF-552871FT-9                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R008, 22             | 2   | 2100-3353   | RESISTOR-TRMR 20K 10pct TKF SIDE-ADJ 1-T      | 2100-3353<br>3386X-Y46-203                                     | MURATA MANUFACTURING<br>BOURNS                     |
| R009                 | 1   | 2100-3352   | RESISTOR-TRMR 1K 10pct TKF SIDE-ADJ 1-TR      | 3386X-Y46-102<br>PV34X102C30                                   | BOURNS<br>MURATA MANUFACTURING                     |
| R010                 | 1   | 0698-3433   | RESISTOR 28.7 +-1pct .125W TF TC=0+-100       | CMF-5528R7FT-1<br>5053HD28R70F<br>NK4H.125W1%+/-<br>100PPM28R7 | VISHAY<br>VISHAY BC COMPONENTS<br>E-SIL COMPONENTS |
| R011, 12, 86, 125    | 4   | 0757-0465   | RESISTOR 100K +-1pct .125W TF TC=0+-100       | 5053HD100K0F<br>CMF-551003FT-1<br>NK4H.125W1%+/-<br>100PPM1003 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R013                 | 1   | 0757-0379   | RESISTOR 12.1 +-1pct .125W TF TC=0+-100       | 5053HD12R10F<br>CMF-5512R1FT-1<br>NK4H.125W1%+/-<br>100PPM12R1 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R017                 | 1   | 0698-7082   | RESISTOR 100K +-1pct .125W TF TC=0+-25        | B0207E100K0F<br>CMF-551003FT-9                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R018, 122, 134       | 3   | 0683-1025   | RESISTOR 1K +-5pct .25W CF TC=0-400           | CF 14 1K5%<br>R25X-J-102<br>CF1/4C__102J                       | ASJ<br>ROHM<br>KOA                                 |

**06032-60022 Control PC Assembly Parts List**

| Reference Designator     | Qty | Agilent P/N | Description                                  | MPN  | Manufacturer                                       |
|--------------------------|-----|-------------|--|--|--|
| R019, 124, 126, 152, 162 | 5   | 0757-0442   | RESISTOR 10K +-1pct .125W TF TC=0+-100       | 5053HD10K00F<br>CMF-551002FT-1<br>NK4H.125W1%+/-<br>100PPM1002 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R020, 50                 | 2   | 0686-1025   | RESISTOR 1K +-5pct .5W CC TC=0+647           |  |  |
| R021, 23, 25             | 3   | 2100-3273   | RESISTOR-TRMR 2K 10pct TKF<br>SIDE-ADJ 1-TRN | 3386X-Y46-202<br>PV34X202C30                                   | BOURNS<br>MURATA MANUFACTURING                     |
| R024                     | 1   | 2100-3350   | RESISTOR-TRMR 200 10pct TKF SIDE-ADJ 1-T     | 2100-3350<br>3386X-Y46-201                                     | MURATA MANUFACTURING<br>BOURNS                     |
| R026                     | 1   | 2100-3274   | RESISTOR-TRMR 10K 10pct TKF SIDE-ADJ 1-T     | 3386X-Y46-103<br>PV34X103C30                                   | BOURNS<br>MURATA MANUFACTURING                     |
| R027, 47                 | 2   | 0757-0470   | RESISTOR 162K +-1pct .125W TF TC=0+-100      | 5053HD162K0F<br>CMF-551623FT-1<br>NK4H.125W1%+/-<br>100PPM1623 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R028                     | 1   | 0757-0464   | RESISTOR 90.9K +-1pct .125W TF TC=0+-100     | 5053HD90K90F<br>CMF-559092FT-1<br>NK4H.125W1%+/-<br>100PPM9092 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R029                     | 1   | 0698-4509   | RESISTOR 80.6K +-1pct .125W TF TC=0+-100     | 5053HD80K60F<br>CMF-558062FT-1<br>NK4H.125W1%+/-<br>100PPM8062 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R030, 115, 171           | 3   | 0757-0280   | RESISTOR 1K +-1pct .125W TF TC=0+-100        | 5053HD1K000F<br>CMF-551001FT-1<br>NK4H.125W1%+/-<br>100PPM1001 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R031                     | 1   | 0698-3260   | RESISTOR 464K +-1pct .125W TF TC=0+-100      | 5053HD464K0F<br>CMF-554643FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R032, 75, 127, 182       | 4   | 0698-8827   | RESISTOR 1M +-1pct .125W TF TC=0+-100        | 5053HD1M000F<br>CMF-551004FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |

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| Reference Designator | Qty | Agilent P/N | Description                              | MPN  | Manufacturer  |
|----------------------|-----|-------------|--|--|---|
| R033                 | 1   | 0698-3449   | RESISTOR 28.7K +-1pct .125W TF TC=0+-100 | 5053HD28K70F<br>CMF-552872FT-1<br>NK4H.125W1%+/-<br>100PPM2872 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                |
| R034, 48, 53, 55     | 4   | 0757-0458   | RESISTOR 51.1K +-1pct .125W TF TC=0+-100 | 5053HD51K10F<br>CMF-555112FT-1<br>NK4H.125W1%+/-<br>100PPM5112 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                |
| R035                 | 1   | 0683-1555   | RESISTOR 1.5M +-5pct .25W CF TC=0-900    | CF1/4-155J   | ASJ   |
| R036, 38             | 2   | 0698-3455   | RESISTOR 261K +-1pct .125W TF TC=0+-100  | 5053HD261K0F<br>CMF-552613FT-1<br>NK4H.125W1%+/-<br>100PPM2613 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                |
| R037                 | 1   | 0698-4536   | RESISTOR 340K +-1pct .125W TF TC=0+-100  | CMF-553403FT-1<br>5053HD340K0F                                 | VISHAY<br>VISHAY BC COMPONENTS                                    |
| R040, 41             | 2   | 0699-1210   | RESISTOR 80K +-0.1PCT .1W TF TC=0+-5     | PR1/10T580K0.1%<br>PTF-5680K0BT-16<br>UXBA80K000B              | PRECISION RESISTIVE<br>PRODUCTS<br>VISHAY<br>VISHAY BC COMPONENTS |
| R042, 52             | 2   | 0699-0642   | RESISTOR 10K +-0.1pct .1W TF TC=0+-5     | PR1/10TC510K0.1%<br>PTF-5610K0BT-16<br>UXB0207-05 0,1% RP 10K  | PRECISION RESISTIVE<br>PRODUCTS<br>VISHAY<br>VISHAY BC COMPONENTS |
| R043                 | 1   | 0699-1211   | RESISTOR 95K +-0.1pct .1W TF TC=0+-5     | PR 1/10T595K0.1%<br>PTF-5695K0BT-16<br>UXBA95K000B             | PRECISION RESISTIVE<br>PRODUCTS<br>VISHAY<br>VISHAY BC COMPONENTS |
| R044, 56, 112, 138   | 4   | 0757-0199   | RESISTOR 21.5K +-1pct .125W TF TC=0+-100 | 5053HD21K50F<br>CMF-552152FT-1<br>NK4H.125W1%+/-<br>100PPM2152 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                |
| R045                 | 1   | 0698-8816   | RESISTOR 2.15 +-1pct .125W TF TC=0+-100  | 5053HD2R150F<br>CMF-552R15FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                                    |

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| Reference Designator | Qty | Agilent P/N | Description                              | MPN  | Manufacturer   |
|----------------------|-----|-------------|--|--|--|
| R046                 | 1   | 0683-1255   | RESISTOR 1.2M +-5pct .25W CF TC=0-900    | CF 14 1M 5%<br>R25X-J-125                                      | ASJ<br>ROHM  |
| R049                 | 1   | 0698-7496   | RESISTOR 20K +-0.1pct .25W TF TC=0+-25   | CMF-602002BT-9<br>H420K0BD<br>MBB0207E20K00B                   | VISHAY<br>MEGGITT-ELECTRONIC<br>COMPONENTS<br>VISHAY BC COMPONENTS   |
| R051, W001-5, VR006  | 7   | 7175-0057   | RESISTOR 0 CWM                           | 5020CX0R000S12AAZ<br>5020CX0R000S12AAZ<br>7175-0057<br>V-10-22 | VISHAY BC COMPONENTS<br>VISHAY<br>DOVER<br>VESTAL ELECTRONIC DEVICES |
| R054                 | 1   | 0698-3450   | RESISTOR 42.2K +-1pct .125W TF TC=0+-100 | 5053HD42K20F<br>CMF-554222FT-1<br>NK4H.125W1%+/-<br>100PPM4222 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                   |
| R057                 | 1   | 0698-3155   | RESISTOR 4.64K +-1pct .125W TF TC=0+-100 | 5053HD4K640F<br>CMF-554641FT-1<br>NK4H.125W1%+/-<br>100PPM4641 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                   |
| R058, 61             | 2   | 0698-3572   | RESISTOR 60.4K +-1pct .125W TF TC=0+-100 | 5053HD60K40F<br>CMF-556042FT-1<br>NK4H.125W1%+/-<br>100PPM6042 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                   |
| R059, 60, 76, 119    | 4   | 0757-0438   | RESISTOR 5.11K +-1pct .125W TF TC=0+-100 | 5053HD5K110F<br>CMF-555111FT-1<br>NK4H.125W1%+/-<br>100PPM5111 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                   |
| R062, 64, 169        | 3   | 0757-0124   | RESISTOR 39.2K +-1pct .125W TF TC=0+-100 | CMF-553922FT-1<br>5053HD39K20F<br>NK4H.125W1%+/-<br>100PPM3922 | VISHAY<br>VISHAY BC COMPONENTS<br>E-SIL COMPONENTS                   |
| R063, 69             | 2   | 0683-1015   | RES-FXD 100 OHM +-5PCT .25W CF TC 0+-300 | CF1/4-101J<br>CF1/4C__101J                                     | ASJ<br>KOA   |

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| Reference Designator | Qty | Agilent P/N | Description                              | MPN  | Manufacturer                                       |
|----------------------|-----|-------------|--|--|--|
| R065                 | 1   | 0757-0473   | RESISTOR 221K +-1pct .125W TF TC=0+-100  | 5053HD221K0F<br>CMF-552213FT-1<br>NK4H.125W1%+/-<br>100PPM2213 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R067                 | 1   | 0757-0123   | RESISTOR 34.8K +-1pct .125W TF TC=0+-100 | 5053HD34K80F<br>CMF-553482FT-1<br>NK4H.125W1%+/-<br>100PPM3482 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R068                 | 1   | 0757-0270   | RESISTOR 249K +-1pct .125W TF TC=0+-100  | 5053HD249K0F<br>CMF-552493FT-1<br>NK4H.125W1%+/-<br>100PPM2493 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R070, 92, 131        | 3   | 0757-0449   | RESISTOR 20K +-1pct .125W TF TC=0+-100   | 5053HD20K00F<br>CMF-552002FT-1<br>NK4H.125W1%+/-<br>100PPM2002 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R071                 | 1   | 0698-0085   | RESISTOR 2.61K +-1pct .25W TF TC=0+-100  | 5043ED2K610F<br>CMF-552611FT-1<br>NK4H.25W1%+/-<br>100PPM2611  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R072                 | 1   | 0757-0452   | RESISTOR 27.4K +-1pct .125W TF TC=0+-100 | 5053HD27K40F<br>CMF-552742FT-1<br>NK4H.125W1%+/-<br>100PPM2742 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R073                 | 1   | 0757-0289   | RESISTOR 13.3K +-1pct .125W TF TC=0+-100 | 5053HD13K30F<br>CMF-551332FT-1<br>NK4H.125W1%+/-<br>100PPM1332 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R074                 | 1   | 0757-0460   | RESISTOR 61.9K +-1pct .125W TF TC=0+-100 | 5053HD61K90F<br>CMF-556192FT-1<br>NK4H.125W1%+/-<br>100PPM6192 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R077, 82, 123        | 3   | 0683-4715   | RESISTOR 470 +-5pct .25W CF TC=0-400     | CF 14 47R 5%<br>R25X-J-471                                     | ASJ<br>ROHM  |

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| Reference Designator              | Qty | Agilent P/N | Description                                   | MPN   | Manufacturer                                       |
|-----------------------------------|-----|-------------|---|---|--|
| R078, 83                          | 2   | 0698-6322   | RES-FXD 4K +-0.1PCT 0.125W TC 0+-25 0207      | CMF-554001BT-9<br>MBB0207-25 0.1%__4K                           | VISHAY<br>VISHAY BC COMPONENTS                     |
| R079, 80, 111                     | 3   | 0683-2035   | RESISTOR 20K +-5pct .25W CF TC=0-400          | CF 14 20 5%   | ASJ  |
| R081                              | 1   | 0757-0419   | RESISTOR 681 +-1pct .25W TF TC=0+-100         | 5053HD6810F<br>CMF-55681FT-1<br>NK4H.25W1%+/-<br>100PPM681      | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R084                              | 1   | 0698-6320   | RES-FXD 5K +-0.1PCT 0.125W TC 0+-25 0207      | CMF-555001BT-9<br>MBB0207-25 0.1%__5K                           | VISHAY<br>VISHAY BC COMPONENTS                     |
| R085                              | 1   | 0698-6983   | RESISTOR 20.4K +-0.1pct .125W TF TC=0+-25     | B0207C20K40B<br>CMF-552042BT-9                                  | VISHAY BC COMPONENTS<br>VISHAY                     |
| R087                              | 1   | 0698-7933   | RESISTOR 3.83K +-0.1pct .125W TF<br>TC=0+-25  | B0207E3K830B<br>CMF-553831BT-9                                  | VISHAY BC COMPONENTS<br>VISHAY                     |
| R088                              | 1   | 0698-6979   | RESISTOR 111.1K +-0.1pct .125W TF<br>TC=0+-25 | B0207E111K1B<br>CMF-55111R1KBT-9                                | VISHAY BC COMPONENTS<br>VISHAY                     |
| R089-91, 94, 95, 114,<br>173, 176 | 8   | 0683-2225   | RES-FXD 2.2KOHM +-5PCT .25W TC 0-400          | CF1/4-222J<br>CF1/4C__222J                                      | ASJ<br>KOA   |
| R093                              | 1   | 0683-3325   | RESISTOR 3.3K +-5pct .25W CF TC=0-400         | CF 14 3K 5%<br>CF1/4C__332J                                     | ASJ<br>KOA   |
| R096                              | 1   | 0757-0481   | RESISTOR 475K +-1pct .125W TF TC=0+-100       | 5053HD475K0F<br>CMF-554753FT-1                                  | VISHAY BC COMPONENTS<br>VISHAY                     |
| R097                              | 1   | 0757-0290   | RESISTOR 6.19K +-1pct .125W TF TC=0+-100      | 5053HD6K190F<br>CMF-556191FT-1                                  | VISHAY BC COMPONENTS<br>VISHAY                     |
| R098, 155                         | 2   | 0757-0444   | RESISTOR 12.1K +-1pct .125W TF TC=0+-100      | 5053HD12K10F<br>CMF-551212FT-1                                  | VISHAY BC COMPONENTS<br>VISHAY                     |
| R099, 103                         | 2   | 0698-4416   | RESISTOR 169 +-1pct .125W TF TC=0+-100        | 5053HD169R0F<br>CMF-551690FT-1<br>NK4H.125W1%+/-<br>100PPM169R0 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |

**06032-60022 Control PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                              | MPN   | Manufacturer   |
|----------------------|-----|-------------|--|---|--|
| R100                 | 1   | 0757-0404   | RESISTOR 130 +-1pct .125W TF TC=0+-100   | 5053HD130R0F<br>CMF-551300FT-1<br>NK4H.125W1%+/-<br>100PPM130R0 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                 |
| R101                 | 1   | 0698-4608   | RESISTOR 806 +-1pct .25W TF TC=0+-100    | CMF-608060FT-1<br>H4806RFZ<br>MBB0207C806R0F                    | VISHAY<br>MEGGITT-ELECTRONIC<br>COMPONENTS<br>VISHAY BC COMPONENTS |
| R102                 | 1   | 0698-4447   | RESISTOR 280 +-1pct .125W TF TC=0+-100   | CMF-552800FT-1<br>5053HD280R0F<br>NK4H.125W1%+/-<br>100PPM280R0 | VISHAY<br>VISHAY BC COMPONENTS<br>E-SIL COMPONENTS                 |
| R107, 109            | 2   | 0683-1815   | RESISTOR 180 +-5pct .25W CF TC=0-400     | CF1/4J181T  | ASJ  |
| R110                 | 1   | 0683-5105   | RESISTOR 51 +-5PCT 0.25W CF TC 0-400     | CF 1/4 C T52A 510 J<br>CF1/4-510J<br>LCA0207 51 5%              | KOA<br>ASJ<br>VISHAY   |
| R113, 161, 163       | 3   | 0757-0283   | RESISTOR 2K +-1pct .125W TF TC=0+-100    | 5053HD2K000F<br>CMF-552001FT-1<br>NK4H.125W1%+/-<br>100PPM2001  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                 |
| R116, 117            | 2   | 0757-0346   | RESISTOR 10 +-1pct .125W TF TC=0+-100    | 5053HD10R00F<br>CMF-5510R0FT-1<br>NK4H.125W1%+/-<br>100PPM10R0  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                 |
| R118                 | 1   | 0698-3498   | RESISTOR 8.66K +-1pct .125W TF TC=0+-100 | 5053HD8K660F<br>CMF-558661FT-1<br>NK4H.125W1%+/-<br>100PPM8661  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                 |
| R121, 140, 149       | 3   | 0683-2025   | RESISTOR 2K +-5pct .25W CF TC=0-400      | CF 14 2K5%<br>R25X-J-202  | ASJ<br>ROHM  |
| R128, 170            | 2   | 0698-3136   | RESISTOR 17.8K +-1pct .125W TF TC=0+-100 | 5053HD17K80F<br>CMF-551782FT-1<br>NK4H.125W1%+/-<br>100PPM1782  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                 |

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| Reference Designator | Qty | Agilent P/N | Description                              | MPN   | Manufacturer                                       |
|----------------------|-----|-------------|--|---|--|
| R129                 | 1   | 0698-4121   | RESISTOR 11.3K +-1pct .125W TF TC=0+-100 | 5053HD11K30F<br>CMF-551132FT-1<br>NK4H.125W1%+/-<br>100PPM1132      | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R132                 | 1   | 1810-0205   | NET-RES 7 4.7K OHM 8-PIN                 | MSP08A01-472G<br>750-81<br>4308R-94Y-472LF                          | VISHAY<br>TT ELECTRONICS<br>BOURNS                 |
| R133                 | 1   | 0683-5625   | RESISTOR 5.6K +-5pct .25W CF TC=0-400    | CF 14 5K 5%<br>R25X-J-562<br>CF1/4C__562J                           | ASJ<br>ROHM<br>KOA                                 |
| R135                 | 1   | 0683-1855   | RESISTOR 1.8M +-5PCT .25W TC 0-1750 +350 | CF1/4-185J  | ASJ  |
| R136                 | 1   | 0757-0420   | RES-FXD 750 OHM +-1PCT .125W TC 0+-100   | CMF557500FKEA<br>5053HD750R0F<br>NK4H.125W1%+/-<br>100PPM750R0      | VISHAY<br>VISHAY BC COMPONENTS<br>E-SIL COMPONENTS |
| R137                 | 1   | 0698-4435   | RESISTOR 2.49K +-1pct .125W TF TC=0+-100 | 5053HD2K490F<br>CMF-552491FT-1<br>NK4H.125W1%+/-<br>100PPM2491      | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R141                 | 1   | 0683-5135   | RESISTOR 51K +-5pct .25W CF TC=0-400     | CF 14 51 5%   | ASJ  |
| R142                 | 1   | 0683-6835   | RESISTOR 68K +-5pct .25W CF TC=0-400     | CF 14 68 5%   | ASJ  |
| R144                 | 1   | 0757-0415   | RESISTOR 475 +-1pct .125W TF TC=0+-100   | 5053HD475R0F<br>CMF-554750FT-1<br>NK4H.125W1%+/-<br>100PPM475R0     | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R145, 157            | 2   | 0683-1005   | RES-FXD 10 +-5PCT .25W CF TC 0-400       | 20028878<br>CF1/4-100J<br>LCA0207 10 5%<br>20028878<br>CF1/4C__100J | PHILIPS<br>ASJ<br>VISHAY<br>NXP<br>KOA             |
| R146, 165            | 2   | 0683-1035   | RES-FXD 10K +-5PCT .25W CF TC 0-400      | CF1/4-103J<br>LCA0207 10K 5%<br>CF1/4C__103J                        | ASJ<br>VISHAY<br>KOA                               |
| R147                 | 1   | 0683-5115   | RESISTOR 510 +-5pct .25W CF TC=0-400     | CF1/4W510 5%  | ASJ  |



**06032-60022 Control PC Assembly Parts List**

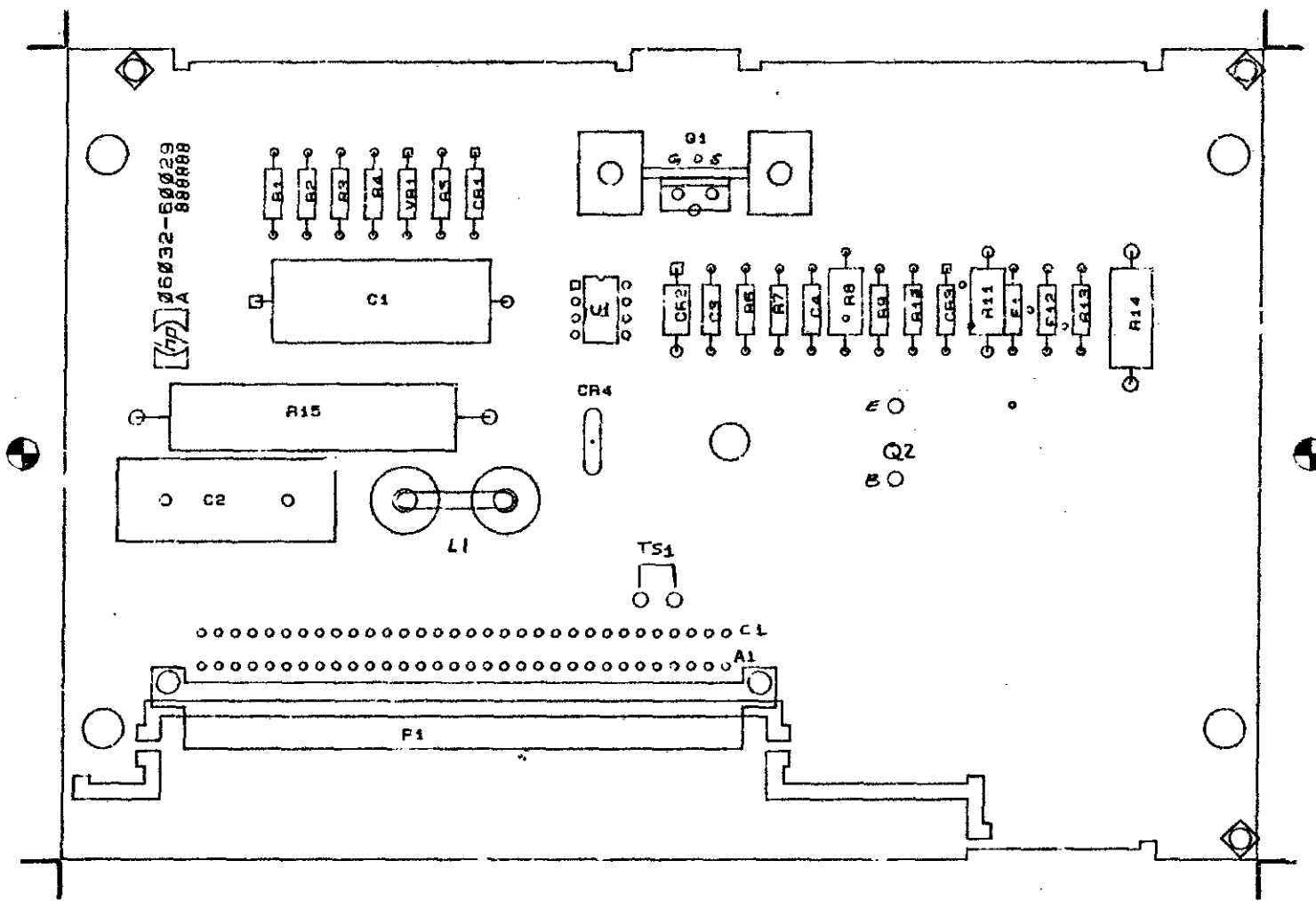
| Reference Designator  | Qty | Agilent P/N | Description                              | MPN  | Manufacturer                                       |
|---|-----|-------------|--|--|--|
| R148  | 1   | 0757-0422   | RESISTOR 909 +-1pct .125W TF TC=0+-100   | 5053HD909R0F<br>CMF-559090FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R153  | 1   | 0757-0443   | RESISTOR 11K +-1pct .125W TF TC=0+-100   | 5053HD11K00F<br>CMF-551102FT-1<br>NK4H.125W1%+/-<br>100PPM1102 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R154  | 1   | 0757-0451   | RESISTOR 24.3K +-1pct .125W TF TC=0+-100 | 5053HD24K30F<br>CMF-552432FT-1<br>NK4H.125W1%+/-<br>100PPM2432 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R158  | 1   | 0686-2005   | RESISTOR 20 +-5pct .5W CC TC=0+412       |  |  |
| R159, 160   | 2   | 0686-6215   | RESISTOR 620 +-5pct .5W CC TC=0+529      |  |  |
| R164  | 1   | 0757-0434   | RESISTOR 3.65K +-1pct .125W TF TC=0+-100 | 5053HD3K650F<br>CMF-553651FT-1<br>NK4H.125W1%+/-<br>100PPM3651 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R166, 167   | 2   | 0686-1315   | RESISTOR 130 +-5pct .5W CC TC=0+529 TBR  |  |  |
| R168  | 1   | 0683-1515   | RESISTOR 150 +-5pct .25W CF TC=0-400     | CF 14 15R 5%   | ASJ  |
| R172  | 1   | 0811-3174   | RESISTOR .07 +-5pct 5W PWI TC=0+-150     | CW-50R075%   | VISHAY   |
| R174  | 1   | 0683-3625   | RESISTOR 3.6K +-5pct .25W CF TC=0-400    | CF 14 3K 5%  | ASJ  |
| R175  | 1   | 0683-1525   | RESISTOR 1.5K +-5pct .25W CF TC=0-400    | CF 14 1K 5%<br>CF1/4C__152J                                    | ASJ<br>KOA   |
| R177  | 1   | 0683-0335   | RESISTOR 3.3 +-5PCT .25W CF TC=0-400     | CF 14 3R 5%<br>CF1/4C____3R3J                                  | ASJ<br>KOA   |
| R180  | 1   | 0683-1045   | RESISTOR 100K +-5pct .25W CF TC=0-400    | CF 14 10K 5%   | ASJ  |
| R181  | 1   | 0683-3335   | RESISTOR 33K +-5pct .25W CF TC=0-400     | CF 14 33 5%  | ASJ  |
| R39, 66, 104, 105, 120,<br>139, 143, 151, R156, 178,<br>179 | 11  | 0683-4725   | RES-FXD 4.7K +-5PCT .25W CF TC 0-400     | CF1/4-472J<br>LCA0207 4.7K 5%<br>CF1/4C__472J                  | ASJ<br>VISHAY<br>KOA                               |
| REF Q009  | 1   | 5060-2944   | ASSY-HS D44H5                            |  |  |
| REF Q009a   | 1   | 1205-0282   | HEAT SINK PLSTC-PWR-CS                   | 6025D  | AAVID THERMALLOY                                   |
| REF Q009b   | 1   | 1854-0635   | TRANSISTOR NPN SI TO-220AB PD=1.67W      | D44H8G   | ON SEMICONDUCTOR                                   |
| REF Q009c   | 1   | 0361-1641   | EYELET-RLD-FLG .121-OD .187-LG .0095-THK | GS 4-6 STEEL-TIN PLATE   | STIMPSON EDWIN B                                   |
| REF U011  | 1   | 5060-2942   | ASSY-HS 317T                             |  |  |
| REF U011a   | 1   | 0361-1641   | EYELET-RLD-FLG .121-OD .187-LG .0095-THK | GS 4-6 STEEL-TIN PLATE   | STIMPSON EDWIN B                                   |
| REF U011b   | 1   | 1826-0393   | IC PWR MGT-V-REG-ADJ-POS 1.2/37V 3 PINS  | LM317T-NOPB  | NATIONAL SEMICONDUCTOR                             |
| REF U011c   | 1   | 1205-0282   | HEAT SINK PLSTC-PWR-CS                   | 6025D  | AAVID THERMALLOY                                   |

**06032-60022 Control PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                                 | MPN  | Manufacturer   |
|----------------------|-----|-------------|---|--|--|
| REF U012             | 1   | 5060-2943   | ASSY-HS 337T                                |  |  |
| REF U012a            | 1   | 0361-1641   | EYELET-RLD-FLG .121-OD .187-LG .0095-THK    | GS 4-6 STEEL-TIN PLATE                           | STIMPSON EDWIN B   |
| REF U012b            | 1   | 1826-0527   | IC PWR MGT-V-REG-ADJ-NEG 1.2/37V 3 PINS     | LM337T-NOPB                                      | NATIONAL SEMICONDUCTOR   |
| REF U012c            | 1   | 1205-0282   | HEAT SINK PLSTC-PWR-CS                      | 6025D  | AAVID THERMALLOY   |
| S001 BACKLOAD        | 1   | 3101-2097   | SWITCH-DIP SPST 0.1A 50VDC                  | 206-0204   | CTS  |
| REF S001             | 1   | 1200-0485   | SOCKET-IC-DIP 14-CONT DIP DIP-SLDR          | 14-820-90<br>CA-14S-10 RAC1-01                   | ARIES ELECTRONICS<br>CIRCUIT ASSEMBLY                              |
| TB001                | 1   | 0360-2195   | BARRIER BLOCK 6-TERM THRMP 2.309-IN-L       | 277206-NL-R53-04<br>72806-49-45-C-M              | COOPER INDUSTRIES<br>AXSYS TECHNOLOGIES                            |
| TB002                | 1   | 0360-2192   | BARRIER BLOCK 2-TERM THRMP .807-IN-L        | 277202-NL-R-53<br>72802-49-C-M                   | COOPER INDUSTRIES<br>AXSYS TECHNOLOGIES                            |
| U001-3               | 3   | 1826-0493   | IC OP AMP LOW-BIAS-H-IMP 8 PIN DIP-P        | LT1008CN8  | LINEAR TECHNOLOGY  |
| U004, 5              | 2   | 1826-0161   | IC OP AMP GP QUAD 14 PIN DIP-P              | LM324NNOPB                                       | NATIONAL SEMICONDUCTOR   |
| U006                 | 1   | 1826-0346   | IC OP AMP GP DUAL 8 PIN DIP-P               | LM358NNOPB                                       | NATIONAL SEMICONDUCTOR   |
| U007, 21             | 2   | 1826-0544   | IC PWR MGT-V-REF-FXD 0/2.5V 8-PDIPP         | SG3503M  | LINFINITY MICROELECTRONICS   |
| U008, 17             | 2   | 1826-0138   | IC COMPARATOR GP QUAD 14 PIN DIP-P          | LM339N<br>LM339NNOPB                             | TEXAS INSTRUMENTS<br>NATIONAL SEMICONDUCTOR                        |
| U009                 | 1   | 1820-0935   | IC CNTR CMOS BIN NEG-EDGE-TRIG 14-BIT       | CD4020BE<br>MC14020BCP                           | TEXAS INSTRUMENTS<br>ON SEMICONDUCTOR                              |
| U010, 23             | 2   | 1826-0065   | IC COMPARATOR PRCN 8 PIN DIP-P              | LM311P<br>LM311NNOPB                             | TEXAS INSTRUMENTS<br>NATIONAL SEMICONDUCTOR                        |
| U013                 | 1   | 1820-1287   | IC DRVR TTL/LS NAND QUAD 2-INP              | DM74LS37N<br>HD74LS37P<br>MB74LS37M<br>SN74LS37N | FAIRCHILD SEMICONDUCTOR<br>HITACHI<br>FUJITSU<br>TEXAS INSTRUMENTS |
| U015                 | 1   | 1820-1272   | IC DRVR TTL/LS NOR QUAD 2-INP               | SN74LS33N  | TEXAS INSTRUMENTS  |
| U016                 | 1   | 1820-1437   | IC MV TTL/LS MONOSTBL CLEAR DUAL            | SN74LS221N                                       | TEXAS INSTRUMENTS  |
| U018                 | 1   | 1820-1205   | IC GATE TTL/LS AND DUAL 4-INP               | DM74LS21N<br>SN74LS21N                           | FAIRCHILD SEMICONDUCTOR<br>TEXAS INSTRUMENTS                       |
| U019                 | 1   | 1820-1112   | IC FF TTL/LS D-TYPE POS-EDGE-TRIG           | HD74LS74AP<br>MB74LS74M<br>SN74LS74AN            | HITACHI<br>FUJITSU<br>TEXAS INSTRUMENTS                            |
| U020                 | 1   | 1820-2096   | IC CNTR TTL/LS BIN ASYNCHRO                 | SN74LS393N                                       | TEXAS INSTRUMENTS  |
| U022                 | 1   | 1826-0428   | IC PWR MGT-V-REG-SWG 1/40V 16 PINS<br>DIP-C | SG3524J  | MICROSEMI  |

**06032-60022 Control PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                                     | MPN       | Manufacturer |
|----------------------|-----|-------------|---|-----------|--------------|
| VR001                | 1   | 1902-3110   | DIODE-ZNR 5.9V 2pct DO-35 PD=.4W<br>TC=+.017pct | 1902-3110 | MICROSEMI    |
| VR002                | 1   | 1902-0777   | DIODE-ZNR 1N825 6.2V 5pct DO-7 PD=.4W           | 1N825     | MICROSEMI    |
| VR003, 4             | 2   | 1902-0018   | DIODE-ZNR 1N941 11.7V 5pct DO-7 PD=.5W          | 1N941     | MICROSEMI    |
| VR005                | 1   | 1902-0575   | DIODE-ZNR 6.5V 2pct DO-7 PD=.4W<br>TC=+.035pct  | 1N754C    | MICROSEMI    |
| Y001 A163            | 1   | 0960-0586   | RESONATOR-CERAMIC ANTIRESONANT<br>FREQUENCY     |           |              |



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 Ma oa ass m .

Agilent 6032A  
 System Autoranging DC Power  
 Supply

06032-60029  
 Diode PC Assembly  
 Component Locator

**06029-60029 Diode Assembly Parts List**

| Reference Designator            | Qty | Agilent P/N | Description                                | MPN   | Manufacturer  |
|---------------------------------|-----|-------------|--|---|---|
| BRACKET                         | 1   | 06032-00017 | BRACKET                                    | 06032-00017<br>06032-00017                                    | EVS METAL<br>WONG ENGINEERING   |
| BRACKET insert nut              | 2   | 0590-1086   | THD-INSR-NUT M4X0.7 3.38MM-LOA CS          | S-M4-2-ZI   | PENN ENGINEERING & MFG  |
| C001                            | 1   | 0180-3167   | CAP-FXD 1000uF +-20pct 25 V AL-ELCTLT      | AGA102M025<br>TVX1E102MCD                                     | AERO M<br>NICHICON  |
| C002                            | 1   | 0160-4569   | CAP-FXD 0.01uF +-10pct 800 V POLYP-FL      | 715P10398LD3  | SB ELECTRONICS  |
| C003                            | 1   | 0160-5422   | CAP-FXD 0.047uF +-20pct 50 V CER X7R       | C420C473M5R5CA<br>DA13X7R1H473M<br>SA205C473MAAH              | KEMET ELECTRONICS<br>TDK<br>AVX   |
| C004                            | 1   | 0160-4832   | CAP-FXD 0.01uF +-10pct 100 V CER X7R       | C410C103K1R5CA<br>SA101C103KAAH<br>SA101C103KAAH              | KEMET ELECTRONICS<br>AVX<br>KYOCERA   |
| CR001, 3                        | 2   | 1901-0050   | DIODE-SWITCHING 80V 200MA 2NS DO-35        | D3D7_FDH6308C   | FAIRCHILD SEMICONDUCTOR   |
| CR001a<br>MOUNTING TO Heat Sink | 1   | 2190-0041   | WASHER-LK INTL T 1/4 IN .256-IN-ID ; WASHE | 1214-00<br>2190-0041  | ILLINOIS TOOL WORKS<br>ELECTRO ASSEMBLIES   |
| CR002                           | 1   | 1901-0731   | DIODE-PWR RECT 400V 1A                     | 1N4004G<br>1901-0731<br>GP10G044                              | ON SEMICONDUCTOR<br>TEMIC TELEFUNKEN<br>MICROELECTRON<br>VISHAY   |
| CR004                           | 1   | 1901-1182   | DIO 400V 17A                               | 1901-1182<br>UFR-7140   | STMICROELECTRONICS<br>MICROSEMI   |
| CR004a                          | 1   | 2950-0048   | NUT-HEX-DBL-CHAM 1/4-28-THD .125-IN-THK ;  | 2950-0048   | FEDERAL SCREW PRODUCTS  |
| F001                            | 1   | 2110-0699   | FUSE-SUBMINIATURE 5A 125V NTD AX UL-LS     | 0251005__L  | LITTELFUSE  |
| HEAT SINK DIODE                 | 1   | 06032-00018 | HEAT SINK-DIODE                            |   |   |
| L001a                           | 1   | 06012-80003 | WIRE-SNUBBER                               |   |   |
| L001b                           | 2   | 9170-0707   | CORE-SHIELDING BEAD                        | 5977006801  | FAIR RITE PRODUCTS  |
| MOUNTING H.S. TO BRKT           | 2   | 0515-0896   | SCREW-MACH M4 X 0.7 10MM-LG -HD            | 0515-0896<br>0515-0896<br>0515-0896<br>0515-0896<br>0515-0896 | ILLINOIS TOOL WORKS<br>MID-CONTINENT SCREW PROD<br>PSM INTERNATIONAL<br>TEXTRON<br>TEJIMA SEISAKUSHO KK |

**06029-60029 Diode Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                              | MPN  | Manufacturer   |
|----------------------|-----|-------------|--|--|--|
| MOUNTING PCB TO H.S. | 4   | 0515-0413   | SCREW-MACH M4 X 0.7 6MM-LG PAN-HD        | 0515-0413<br>0515-0413<br>0515-0413<br>0515-0413<br>0515-0413  | BOSSARD<br>ILLINOIS TOOL WORKS<br>LONG-LOK FASTENER<br>MID-CONTINENT SCREW PROD<br>TEXTRON |
| REF PCB TO HS        | 4   | 0380-1524   | STANDOFF-HEX 8-MM-LG M4.0 X 0.7-THD ; ST | 0380-1524<br>0380-1524<br>0380-1524                            | LYN-TRON<br>RAF ELECTRONIC<br>HARDWARE/R&R MF<br>BOSSARD                                   |
| P001                 | 1   | 1252-1053   | CONN-POST TYPE 5.08-PIN-SPCG-MTG-END     | 86094648813765V1   | FCI FRAMATOME BERG   |
| P001a                | 2   | 0361-1372   | RIVET-SPCLY UNIV-HD .094DIA .392LG       | 1189-2512  | TEXTRON  |
| Q001                 | 1   | 5060-9666   | ASSY-HEAT SINK                           |  |  |
| Q001a                | 1   | 0361-1641   | EYELET-RLD-FLG .121-OD .187-LG .0095-THK | GS 4-6 STEEL-TIN PLATE   | STIMPSON EDWIN B   |
| Q001b                | 1   | 1205-0398   | HEAT SINK SGL PLSTC-PWR-CS               | 035560   | AAVID THERMALLOY   |
| Q001c                | 1   | 1855-0549   | TRANSISTOR MOSFET N-CHAN E-MODE TO-2     | IRF510PBF  | INTERNATIONAL RECTIFIER  |
| Q002                 | 1   | 1854-1070   | TRANSISTOR NPN SI TO-3 PD=180W FT=800K   | MJ15015G   | ON SEMICONDUCTOR   |
| Q002a - CONNECTOR    | 2   | 1251-7600   | CONNECTOR-SGL CONT SKT .04-IN-BSC-SZ R   | 09-9077-1-03   | CONCORD ELECTRONICS  |
| Q002b - INSULATOR    | 2   | 0340-0167   | INSULATOR-BSHG TFE ; INSULATOR-BUSHING   | 0340-0167  | SPARTA   |
| Q002c - MOUNTING     | 2   | 0515-0212   | SCREW-MACH M3.5 X 0.6 6MM-LG PAN-HD ; S  | 0515-0212<br>0515-0212<br>0515-0212<br>0515-0212               | MID-CONTINENT SCREW PROD<br>ILLINOIS TOOL WORKS<br>LONG-LOK FASTENER<br>TEXTRON            |
| R001                 | 1   | 0683-1855   | RESISTOR 1.8M +-5PCT .25W TC 0-1750 +350 | CF1/4-185J   | ASJ  |
| R002                 | 1   | 0698-3151   | RESISTOR 2.87K +-1pct .125W TF TC=0+-100 | 5053HD2K870F<br>CMF-552871FT-1<br>H82K87FZ                     | VISHAY BC COMPONENTS<br>VISHAY<br>TYCO INTERNATIONAL                                       |
| R003                 | 1   | 0757-0459   | RESISTOR 56.2K +-1pct .125W TF TC=0+-100 | 5053HD56K20F<br>CMF-555622FT-1<br>NK4H.125W1%+/-<br>100PPM5622 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS   |
| R004                 | 1   | 0698-3202   | RESISTOR 1.74K +-1pct .125W TF TC=0+-100 | 5053HD1K740F<br>CMF-551741FT-1<br>NK4H.125W1%+/-<br>100PPM1741 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS   |

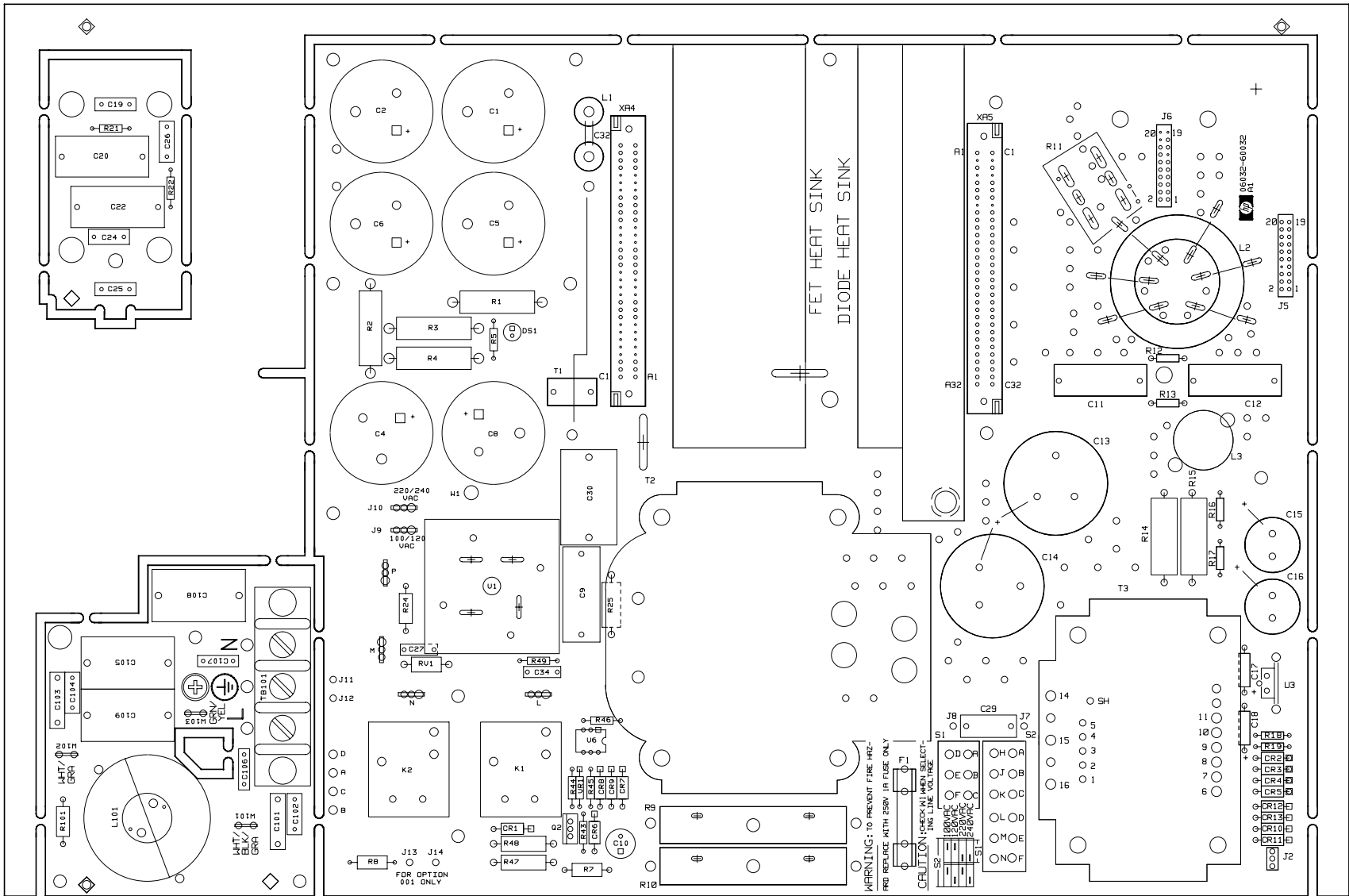
**06029-60029 Diode Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                              | MPN   | Manufacturer  |
|----------------------|-----|-------------|--|---|---|
| R005                 | 1   | 0757-0317   | RESISTOR 1.33K +-1pct .125W TF TC=0+-100 | 5053HD1K330F<br>CMF-551331FT-1<br>NK4H.125W1%+/-<br>100PPM1331      | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                              |
| R006                 | 1   | 0683-1045   | RESISTOR 100K +-5pct .25W CF TC=0-400    | CF 14 10K 5%  | ASJ   |
| R007                 | 1   | 0683-1025   | RESISTOR 1K +-5pct .25W CF TC=0-400      | CF 14 1K5%<br>R25X-J-102<br>CF1/4C__102J                            | ASJ<br>ROHM<br>KOA  |
| R008                 | 1   | 0698-8827   | RESISTOR 1M +-1pct .125W TF TC=0+-100    | 5053HD1M000F<br>CMF-551004FT-1                                      | VISHAY BC COMPONENTS<br>VISHAY  |
| R009                 | 1   | 0757-0480   | RESISTOR 432K +-1pct .125W TF TC=0+-100  | 5053HD432K0F<br>CMF-554323FT-1                                      | VISHAY BC COMPONENTS<br>VISHAY  |
| R010                 | 1   | 0698-4196   | RESISTOR 1.07K +-1pct .125W TF TC=0+-100 | 5053HD1K070F<br>CMF-551071FT-1<br>NK4H.125W1%+/-<br>100PPM1071      | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                              |
| R011                 | 1   | 0699-4634   | RES-FXD 10 OHM +-5PCT 0.5W TC +350 -450  | CF 1/2 C 100 J  | KOA   |
| R012                 | 1   | 0757-0447   | RESISTOR 16.2K +-1pct .125W TF TC=0+-100 | 5053HD16K20F<br>CMF-551622FT-1<br>NK4H.125W1%+/-<br>100PPM1622      | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                              |
| R013                 | 1   | 0683-1005   | RES-FXD 10 +-5PCT .25W CF TC 0-400       | 20028878<br>CF1/4-100J<br>LCA0207 10 5%<br>20028878<br>CF1/4C__100J | PHILIPS<br>ASJ<br>VISHAY<br>NXP<br>KOA  |
| R014                 | 1   | 0811-3290   | RESISTOR .1 +-5pct 2W PWI TC=0+-800      | SPH   | TT ELECTRONICS  |
| R015                 | 1   | 0811-1068   | RESISTOR 50 +-5pct 10W PWN TC=0+-20      | NAS-10<br>NS-10_50_5%   | TT ELECTRONICS<br>VISHAY  |
| TS001 SW-THERM       | 1   | 3103-0081   | SWITCH-THRM FXD +202F 15A CL-ON-RISE     | 2455R-87-247  | HONEYWELL   |
| TS001a - MOUNTING    | 2   | 0515-0212   | SCREW-MACH M3.5 X 0.6 6MM-LG PAN-HD ; S  | 0515-0212<br>0515-0212<br>0515-0212<br>0515-0212                    | MID-CONTINENT SCREW PROD<br>ILLINOIS TOOL WORKS<br>LONG-LOK FASTENER<br>TEXTRON |
| U001                 | 1   | 1826-0346   | IC OP AMP GP DUAL 8 PIN DIP-P            | LM358NNOPB  | NATIONAL SEMICONDUCTOR  |

### 06029-60029 Diode Assembly Parts List

| Reference Designator | Qty | Agilent P/N | Description                               | MPN    | Manufacturer |
|----------------------|-----|-------------|---|--------|--------------|
| VR001                | 1   | 1902-0575   | DIODE-ZNR 6.5V 2pct DO-7 PD=.4W TC=+.035p | 1N754C | MICROSEMI    |





**Agilent 6032A  
System Autoranging DC Power  
Supply**

**06032-60032  
Mother Board PC Assembly  
Component Locator**

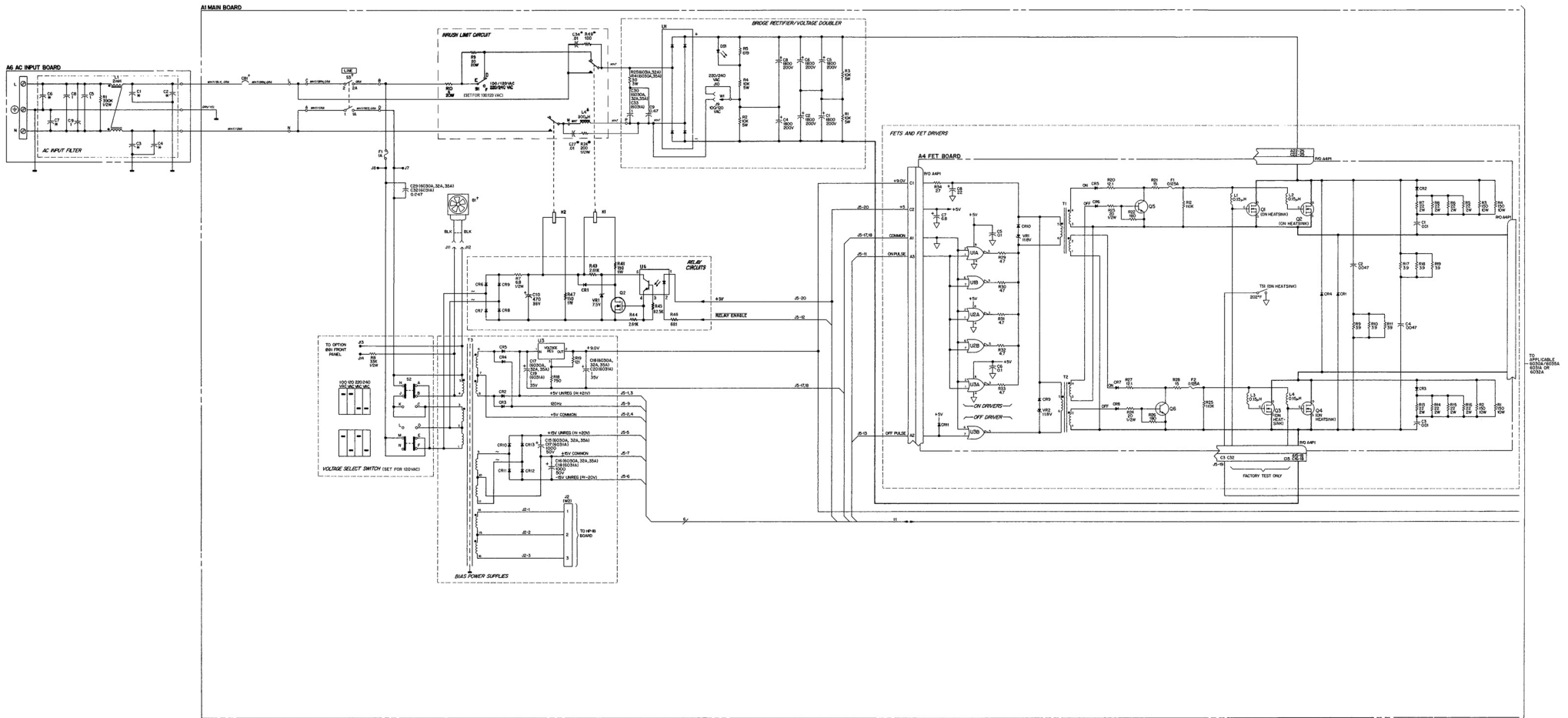


Figure 6-10A. Power Mesh Schematic Diagram (AC Input and FET Board)

**Agilent 6032A  
System Autoranging DC Power  
Supply**

**06032-60032  
Main Board PC Assembly  
Page 1 of 2**

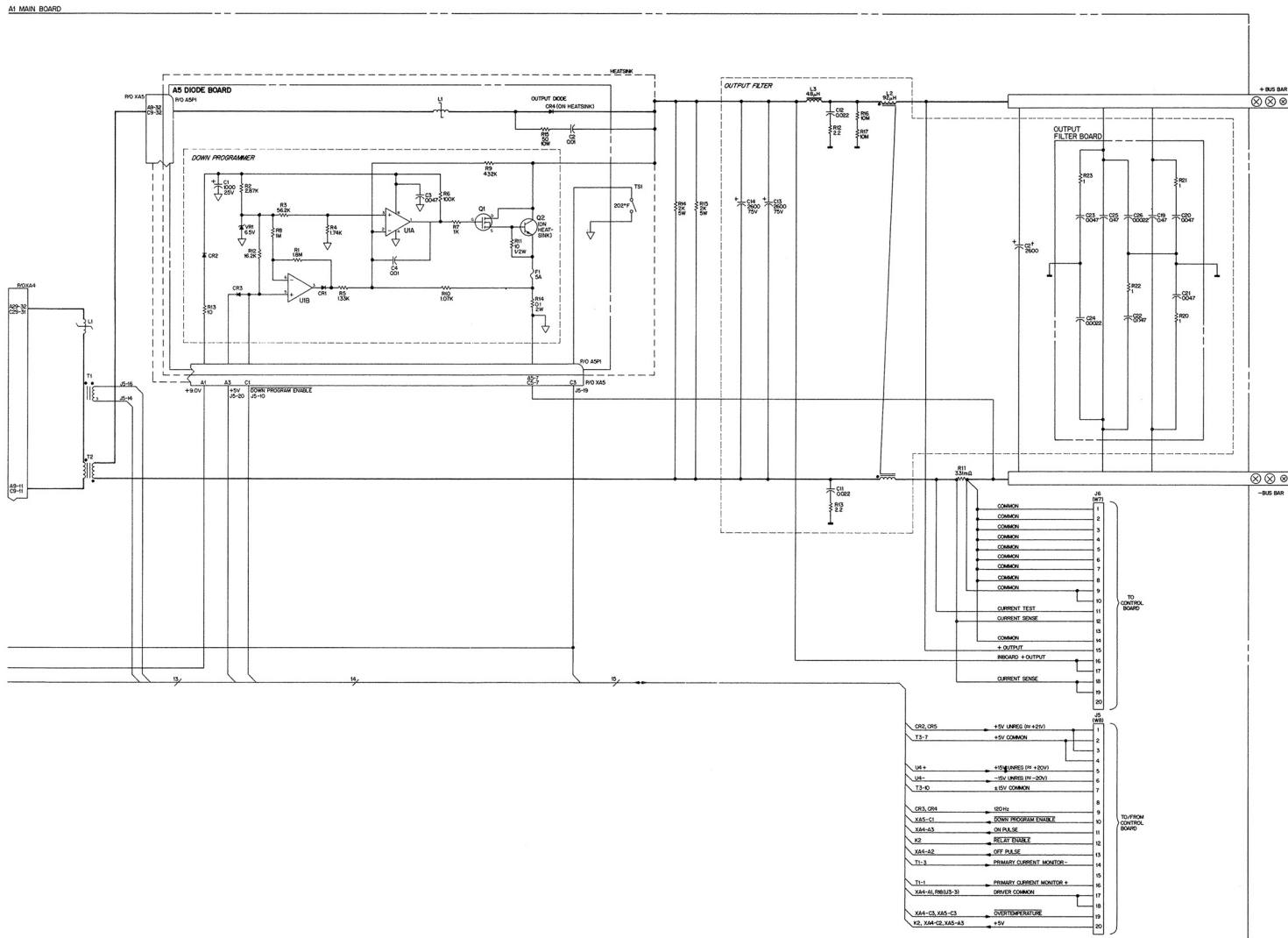


Figure 6-10D. 6032A Power Mesh Schematic Diagram (Diode Board and Output Filter)

**Agilent 6032A  
System Autoranging DC Power  
Supply**

**06032-60032 Mother Board PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                                 | MPN  | Manufacturer  |
|----------------------|-----|-------------|---|--|---|
| C001, 2, 4-6, 8      | 6   | 0180-4528   | CAP-FXD 1800uF +30pct -10pct 200 V AL-ELCT  | 400XE1148<br>81DA1202A   | CORNELL-DUBILIER ELECTRONICS<br>NIPPON CHEMI-CON                |
| C009                 | 1   | 0160-5932   | CAP-FXD 0.47uF +-20PCT 630V POLYE-MET       | F1772-447-2000<br>PHE820MF6470M  | VISHAY<br>EVOX/RIFA   |
| C010                 | 1   | 0180-3699   | CAP-FXD 470uF +-20PCT 35 V AL-ELCTLT        | UPW1V471MPD  | NICHICON  |
| C011, 12             | 2   | 0160-5933   | CAP-FXD 0.022uF +-10PCT 1.5kV POLYP-FL      | FKP-1-0.022UF/1600VDC  | WIMA  |
| C013, 14             | 2   | 0180-3492   | CAP-FXD 2600uF +50pct -10pct 75 V AL-ELCTLT | 115-1017-02  | CORNELL-DUBILIER ELECTRONICS                                    |
| C015, 16             | 2   | 0180-3587   | CAP-FXD 1000uF +-20pct 50 V AL-ELCTLT       | ELXZ500ELL102ML25S   | NIPPON CHEMI-CON  |
| C017, 18             | 2   | 0180-4129   | CAP-FXD 1uF +-10pct 35 V TA                 | TARR105K035<br>T322B105K035AS  | AVX<br>KEMET ELECTRONICS  |
| C027, 34             | 2   | 0160-6805   | CAP-FXD 0.01uF +-10pct 400 V POLYE-MET      | MKS4 0.01UF/400V/10%<br>MKT 1822-310/405<br>MMK10103K400                     | WIMA<br>VISHAY<br>EVOX/RIFA                                     |
| C029                 | 1   | 0160-4323   | CAP-FXD 0.047uF +-20PCT 275V PPR-MET        | PME271M547MR30<br>MP3-X2-<br>0.047uF/275Vac/20%,7X15<br>X19, Pitch15mm       | EVOX/RIFA<br>WIMA   |
| C030                 | 1   | 0160-7606   | CAP-FXD 1uF +-20PCT 275 V POLYE-MET         | PHE820MF7100MR06L2<br>MKP-X2-<br>1uF/275Vac/20%,13X24X3<br>1.5,Pitch 27.55mm | EVOX/RIFA<br>WIMA   |
| CR001, 2, 5-13       | 11  | 1901-0731   | DIODE-PWR RECT 400V 1A                      | 1N4004G<br>1901-0731<br>GP10G044   | ON SEMICONDUCTOR<br>TEMIC TELEFUNKEN<br>MICROELECTRON<br>VISHAY |
| CR003, 4             | 2   | 1901-0050   | DIODE-SWITCHING 80V 200MA 2NS DO-35         | D3D7_FDH6308C  | FAIRCHILD SEMICONDUCTOR   |
| DS001                | 1   | 1990-0517   | LED-LAMP LUM-INT=5.4MCD IF=30MA-MAX         | HLMP-3301  | AVAGO TECHNOLOGIES  |
| F001                 | 1   | 2110-0001   | FUSE (INCH) 1A 250V NTD FE UL-LST           | 0312001.<br>04.010<br>AGC-1<br>SS2-1A  | LITTELFUSE<br>ELECTREY<br>COOPER INDUSTRIES<br>SAN-O INDUSTRIAL |
| J002                 | 1   | 1251-5384   | CONN-HDR VERT 3-PIN 2.54MM 1-ROW            | 1102-8-103-01<br>22-29-2031  | METHODE ELECTRONICS<br>MOLEX                                    |
| J005 REF W008        | 1   | 5060-2877   | CA ASSY                                     |  |   |

**06032-60032 Mother Board PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                             | MPN   | Manufacturer   |
|----------------------|-----|-------------|---|---|--|
| J006, REF W007       | 1   | 5060-2878   | CA ASSY                                 |   |  |
| J007, 8, 11-14       | 6   | 1251-0600   | CONNECTOR-SGL CONT PIN 1.14-MM-BSC-SZ   | 16-06-0034<br>928-196-004140<br>MM 600G                         | MOLEX<br>TEXTRON<br>MILL-MAX   |
| K001, 2              | 2   | 0490-1834   | RELAY 1C 12VDC-COIL 20A 30VDC           | AZ2100-1C-12DE<br>JTN1S-TMP-F-DC12V                             | AMERICAN ZETTLER<br>MATSUSHITA                                       |
| L001                 | 1   | 06012-80003 | WIRE-SNUBBER                            |   |  |
| L002                 | 1   | 9170-1267   | CORE-TOROID 1000uH +-30PCT              | OR-44.5-13-30H-CE<br>H5C2-T44.5X13X30E                          | HITACHI<br>TDK   |
| L003                 | 1   | 06012-80095 | CHOKE-OUTPUT                            |   |  |
| Q002                 | 1   | 1855-1886   | TRANSISTOR-MOSFET N-CHAN E-MODE SI TC   | FQP7N10L  | FAIRCHILD SEMICONDUCTOR  |
| R001-4               | 4   | 0811-1866   | RESISTOR 10K +-1pct 5W PWI TC=0+-20     | RS-510K01%<br>T5  | VISHAY<br>TT ELECTRONICS   |
| R005                 | 1   | 0757-0418   | RESISTOR 619 +-1pct .125W TF TC=0+-100  | 5053HD619R0F<br>CMF-556190FT-1<br>NK4H.125W1%+/-<br>100PPM619R0 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS                   |
| R007                 | 1   | 0698-5525   | RESISTOR 6.8 +-5pct .5W CC TC=0+412     |   |  |
| R008                 | 1   | 0757-0765   | RESISTOR 36.5K +-1pct .25W TF TC=0+-100 | CMF-603652FT-1<br>H436K5FZ<br>MBB0207C36K50F                    | VISHAY<br>MEGGITT-ELECTRONIC<br>COMPONENTS<br>VISHAY BC COMPONENTS   |
| R009                 | 1   | 0811-3700   | RES 20 OHM 20W                          | PC-20-20-10% SPECIAL<br>P-636                                   | TT ELECTRONICS   |
| R010                 | 1   | 0811-3699   | RES 6 OHMS 20W                          | PC-20-6-10% SPECIAL<br>P-677                                    | TT ELECTRONICS   |
| R011                 | 1   | 06032-80001 | RES MONITOR 60V                         |   |  |
| R012, 13             | 2   | 7175-0057   | RESISTOR 0 CWM                          | 5020CX0R000S12AAZ<br>5020CX0R000S12AAZ<br>7175-0057<br>V-10-22  | VISHAY BC COMPONENTS<br>VISHAY<br>DOVER<br>VESTAL ELECTRONIC DEVICES |
| R014, 15             | 2   | 0812-0100   | RESISTOR 2K +-5pct 5W PWI TC=0+-20      | RS-52K05%<br>T5   | VISHAY<br>TT ELECTRONICS   |
| R016, 17             | 2   | 0699-1797   | RESISTOR 10M +-5pct .25W CF TC=0-1000   | CF 1/4 C ___ 106 J<br>CF1/ 10M5%                                | KOA<br>ASJ   |

**06032-60032 Mother Board PC Assembly Parts List**

| Reference Designator     | Qty | Agilent P/N | Description                             | MPN  | Manufacturer                                       |
|--------------------------|-----|-------------|---|--|--|
| R018                     | 1   | 0757-0420   | RES-FXD 750 OHM +-1PCT .125W TC 0+-100  | CMF557500FKEA<br>5053HD750R0F<br>NK4H.125W1%+/-<br>100PPM750R0 | VISHAY<br>VISHAY BC COMPONENTS<br>E-SIL COMPONENTS |
| R019                     | 1   | 0757-0403   | RESISTOR 121 +-1pct .125W TF TC=0+-100  | 5053HD121R0F<br>CMF-551210FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R024                     | 1   | 0686-2015   | RESISTOR 200 +-5pct .5W CC TC=0+529     |  |  |
| R025                     | 1   | 0764-0041   | RESISTOR 30 +-5pct 2W MO TC=0+-200      | FP69 30R0 5%<br>GS-3-30R0J                                     | VISHAY<br>TT ELECTRONICS                           |
| R043, 44                 | 2   | 0698-0085   | RESISTOR 2.61K +-1pct .25W TF TC=0+-100 | 5043ED2K610F<br>CMF-552611FT-1<br>NK4H.25W1%+/-<br>100PPM2611  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R045                     | 1   | 0698-8827   | RESISTOR 1M +-1pct .125W TF TC=0+-100   | 5053HD1M000F<br>CMF-551004FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| R046                     | 1   | 0757-0419   | RESISTOR 681 +-1pct .25W TF TC=0+-100   | 5053HD6810F<br>CMF-55681FT-1<br>NK4H.25W1%+/-<br>100PPM681     | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R047, 48                 | 2   | 0698-3622   | RESISTOR 120 +-5pct 2W MO TC=0+-200     | FP69 120R0 5%<br>GS-3-1200-J                                   | VISHAY<br>TT ELECTRONICS                           |
| R049                     | 1   | 0757-0401   | RESISTOR 100 +-1pct .125W TF TC=0+-100  | 5053HD100R0F<br>CMF-551000FT-1                                 | VISHAY BC COMPONENTS<br>VISHAY                     |
| REF F001                 | 2   | 2110-1107   | FUHLR-CLP-TYP                           | 1A1907-03  | COOPER INDUSTRIES                                  |
| REF L001A                | 2   | 9170-0707   | CORE-SHIELDING BEAD                     | 5977006801   | FAIR RITE PRODUCTS                                 |
| REF L002                 | 6   | 5080-2040   | JUMPER CU LOOP                          | 5080-2040<br>5080-2040   | EVS METAL<br>PARADIGM METAL INDUSTRIES             |
| REF L003A                | 1   | 9170-0721   | CORE-TUNING                             | 4277484111   | FAIR RITE PRODUCTS                                 |
| REF R009, 10             | 2   | 0403-0086   | BUMPER FOOT-PRS-IN .5-IN-MAX-ODBLK RBR  | 4072-022   | STOCKWELL RUBBER                                   |
| REF V001                 | 1   | 1205-0862   | HEAT SINK                               | 1205-0862  | AAVID THERMALLOY                                   |
| REF:J009, 10, L, M, N, P | 6   | 1251-5613   | CONNECTOR-SGL CONT QDISC-M TAB          | 62409-1  | TYCO ELECTRONICS AMP                               |
| RV001                    | 0   | 0837-0312   | VOLTAGE SUPPRESSOR VR=342V, BV=380 TC   | 1.5KE400CA   | VISHAY   |
| S001                     | 1   | 3101-2046   | SWITCH-SL DPDT STD 1.5A 250VAC PC       | 11A-1526A  | SWITCHCRAFT  |
| S002                     | 1   | 3101-1914   | SWITCH-SL 2-DPDT STD 1.5A 250VAC PC     | 11E-1060B  | SWITCHCRAFT  |

**06032-60032 Mother Board PC Assembly Parts List**

| Reference Designator | Qty | Agilent P/N | Description                              | MPN                                    | Manufacturer  |
|----------------------|-----|-------------|--|--|---|
| T001                 | 1   | 9100-4350   | INDUCTOR-FIXED CURRENT SENSE INDUCTOR    | 57P1688<br>PE-51688                    | VITEC ELECTRONIC<br>TECHNITROL                        |
| U001 PRE-ASSY        | 1   | 1906-0389   | DIODE-FW BRDG 600V 35A                   | GBPC3506                               | VISHAY  |
| REF U003             | 1   | 5060-2942   | ASSY-HS 317T                             |  |   |
| U003a                | 1   | 0361-1641   | EYELET-RLD-FLG .121-OD .187-LG .0095-THK | GS 4-6 STEEL-TIN PLATE                 | STIMPSON EDWIN B                                      |
| U003b                | 1   | 1826-0393   | IC PWR MGT-V-REG-ADJ-POS 1.2/37V 3 PINS  | LM317T-NOPB                            | NATIONAL SEMICONDUCTOR                                |
| U003c                | 1   | 1205-0282   | HEAT SINK PLSTC-PWR-CS                   | 6025D                                  | AAVID THERMALLOY                                      |
| U006                 | 1   | 1990-1074   | S1C-LTB                                  | 4N35-M                                 | FAIRCHILD SEMICONDUCTOR                               |
| VR001                | 1   | 1902-0955   | DIODE-ZNR 1N5236B 7.5V 5pct DO-35 PD=.4W | 1N958B-DO35                            | MICROSEMI   |
| XA4, XA5             | 2   | 1252-1052   | CONN-POST TYPE .100-PIN-SPCG-MTG-END     | 254-71-06-402<br>8609-4647814765000E1  | LABINAL COMPONENTS &<br>SYSTEMS<br>FCI FRAMATOME BERG |
|                      | 1   | 0380-1704   | STANDOFF-RVT-ON 8-MM-LG M4.0 X 0.7-THD   | 0380-1704<br>21055B-B-0470-14<br>F 218 | LYN-TRON<br>MITE<br>LA CLUSIENNE                      |



**Agilent 6032A  
System Autoranging DC Power  
Supply**

**5063-3463  
GPIB PC Assembly  
Component Locator**



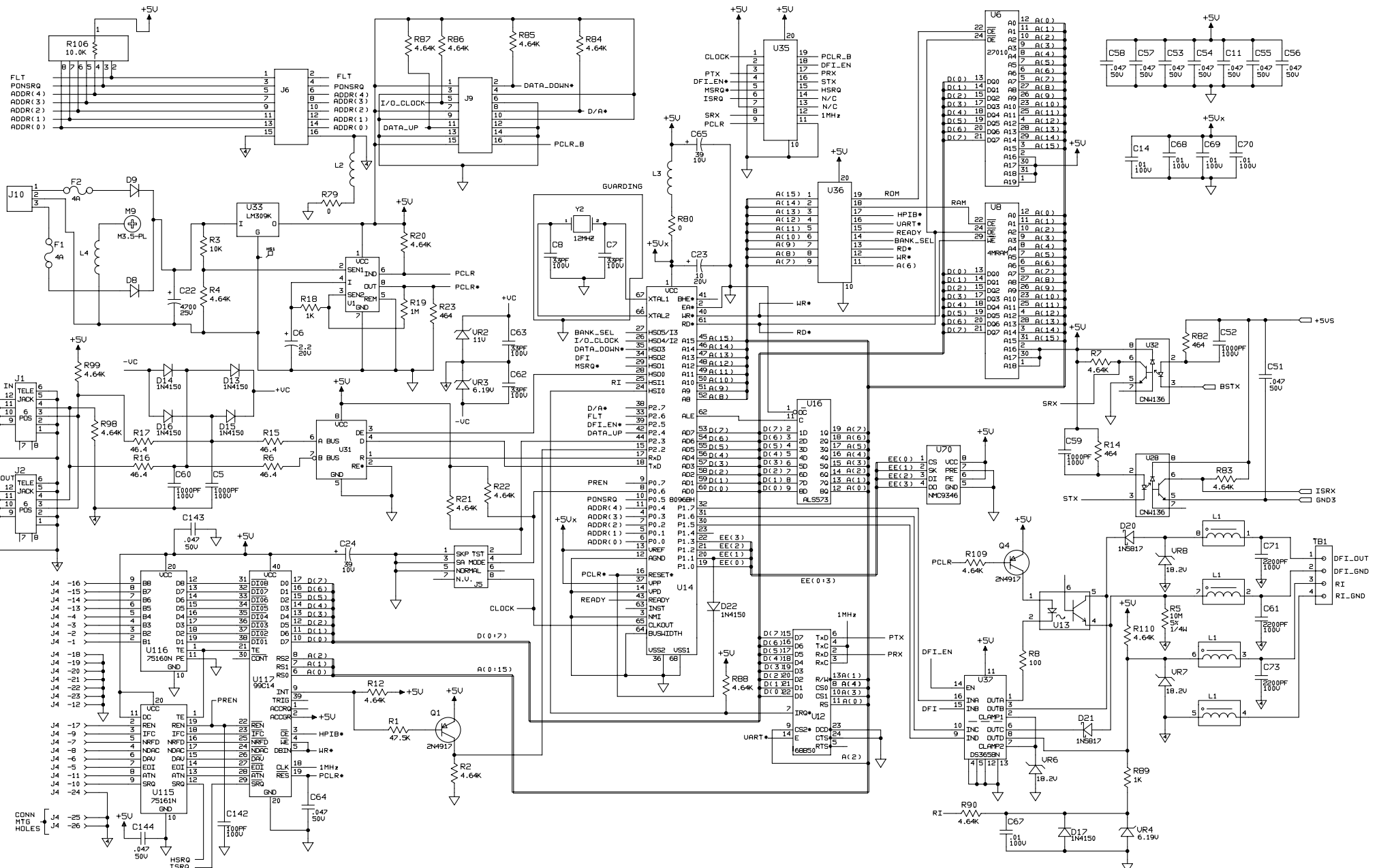
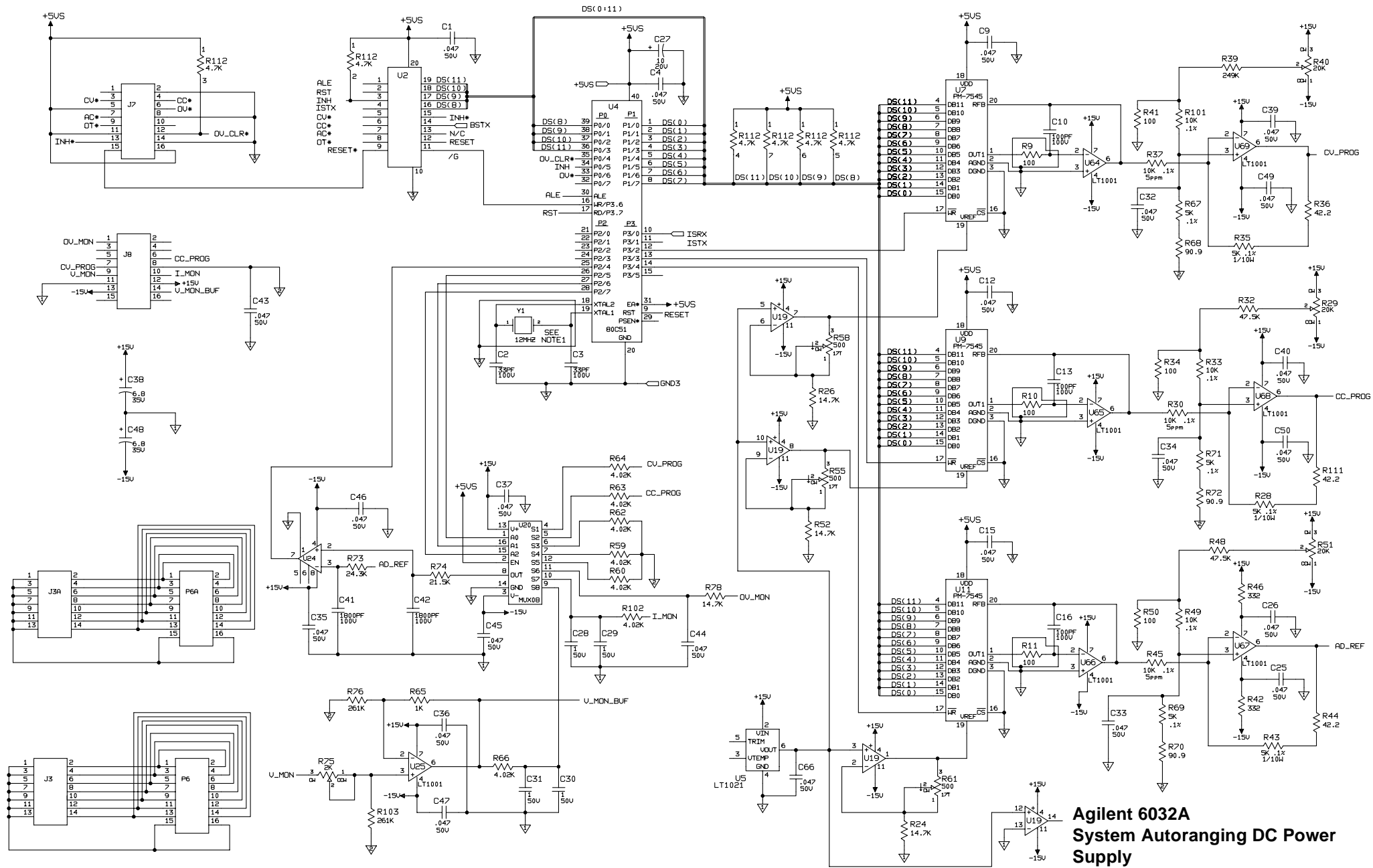


Figure 6-13A. GPIB Board Schematic Diagram

Agilent 6032A  
System Autoranging DC Power  
Supply



**Agilent 6032A  
System Autoranging DC Power  
Supply**

**5063-3463  
GPIB PC Assembly  
Page 2 of 2**

### 5063-3463 GPIB Assembly Parts List

| Reference Designator  | QTY | Agilent P/N | Description                                 | MPN   | Manufacturer   |
|---|-----|-------------|---|---|--|
| C1, C4, C9, C11, C12, C15, C25, C26, C32-C37, C39, C40, C43-C47, C49-C51, C53-C58, C64, C66, C143, C144 | 34  | 0160-5422   | CAP-FXD 0.047uF +-20pct 50 V CER X7R        | C420C473M5R5CA<br>DA13X7R1H473M<br>SA205C473MAAH                  | KEMET ELECTRONICS<br>TDK<br>AVX  |
| C10, C13, C142, C16, C67  | 5   | 0160-4801   | CAP-FXD 100pF +-5pct 100 V CER C0G          | C410C101J1G5CA<br>SA102A101JAAH<br>SA102A101JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA  |
| C14, C68, C69, C70  | 4   | 0160-4832   | CAP-FXD 0.01uF +-10pct 100 V CER X7R        | C410C103K1R5CA<br>SA101C103KAAH<br>SA101C103KAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA  |
| C2, C3, C62, C63, C7, C8  | 6   | 0160-4807   | CAP-FXD 33pF +-5pct 100 V CER C0G           | C410C330J1G5CA<br>SA102A330JAAH<br>SA102A330JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA  |
| C22   | 1   | 0180-3798   | CAP-FXD 4700uF +30pct -10pct 25 V AL-ELCTLT | 0180-3798<br>0180-3798<br>0180-3798<br>0180-3798                  | CORNELL-DUBILIER ELECTRONICS<br>NIPPON CHEMI-CON<br>VISHAY BC COMPONENTS<br>VISHAY |
| C23, C27  | 2   | 0180-4136   | CAP-FXD 10uF +-10pct 20 V TA                | TARS106K020<br>T322C106K020AS                                     | AVX<br>KEMET ELECTRONICS   |
| C24, C65  | 2   | 0180-0393   | CAP-FXD 39uF +-10pct 10 V TA                | T110B396K010AS<br>TAAB39K10RX                                     | KEMET ELECTRONICS<br>STC   |
| C28, C29, C30, C31  | 4   | 0160-5469   | CAP-FXD 1uF +-10PCT 50 V POLYE-MET          | MKS 2 1.0/10/50 PCM5<br>TR<br>MMK5105K50J02TR18                   | WIMA<br>EVOX/RIFA  |
| C38, C48  | 2   | 0180-4132   | CAP-FXD 6.8uF +-10pct 35 V TA               | TARW685K035<br>T322D685K035AS                                     | AVX<br>KEMET ELECTRONICS   |
| C41, C42  | 2   | 0160-4820   | CAP-FXD 1800pF +-5pct 100 V CER C0G         | C430C182J1G5CA<br>DA13C0G2A182J<br>SA301A182JAAH<br>SA301A182JAAH | KEMET ELECTRONICS<br>TDK<br>AVX<br>KYOCERA   |
| C5, C52, C59, C60   | 4   | 0160-4822   | CAP-FXD 1000pF +-5pct 100 V CER C0G         | C420C102J1G5CA<br>SA201A102JAAH<br>SA201A102JAAH                  | KEMET ELECTRONICS<br>AVX<br>KYOCERA  |

### 5063-3463 GPIB Assembly Parts List

| Reference Designator  | QTY | Agilent P/N | Description                              | MPN   | Manufacturer  |
|-----------------------|-----|-------------|--|---|---|
| C6                    | 1   | 0180-0197   | CAP-FXD 2.2uF +-10pct 20 V TA            | TAAA225K020<br>T110A225K020AS<br>TAAA2R2K20RX                 | AVX<br>KEMET ELECTRONICS<br>STC                                 |
| C61, C71, C73         | 3   | 0160-4830   | CAP-FXD 2200pF +-10pct 100 V CER X7R     | C410C222K1R5CA<br>SA101C222KAAH<br>SA101C222KAAH              | KEMET ELECTRONICS<br>AVX<br>KYOCERA                             |
| D13-D17, D22          | 6   | 1901-1098   | DIODE-SWITCHING 1N4150 50V 200MA 4NS     | 1N4150<br>1N4150  | FAIRCHILD SEMICONDUCTOR<br>ROHM                                 |
| D20, D21              | 2   | 1901-1080   | DIODE-SCHOTTKY 20V 1A                    | 1N5817RLG   | ON SEMICONDUCTOR  |
| D8, D9                | 2   | 1901-0731   | DIODE-PWR RECT 400V 1A                   | 1N4004G<br>1901-0731<br>GP10G044                              | ON SEMICONDUCTOR<br>TEMIC TELEFUNKEN<br>MICROELECTRON<br>VISHAY |
| F1, F2                | 2   | 2110-0712   | FUSE-SUBMINIATURE 4A 125V NTD AX         | 0251004 L   | LITTELFUSE  |
| J1, J2                | 2   | 1253-0238   | CONNECTOR 6-PIN F LC SERIES              | RJ11-6LC2-B   | CORCOM  |
| J10                   | 1   | 1251-5384   | CONN-HDR VERT 3-PIN 2.54MM 1-ROW         | 1102-8-103-01<br>22-29-2031                                   | METHODE ELECTRONICS<br>MOLEX                                    |
| J3                    | 1   | 1200-0485   | SOCKET-IC-DIP 14-CONT DIP DIP-SLDR       | 14-820-90<br>CA-14S-10 RAC1-01                                | ARIES ELECTRONICS<br>CIRCUIT ASSEMBLY                           |
| J4                    | 1   | 1252-2161   | CONN-RECT MICRORBN 24-CKT 24-CONT        | 5554923-2   | TYCO ELECTRONICS AMP  |
| J5                    | 1   | 1251-4926   | CONN-HDR VERT 8-PIN 2.54MM 2-ROW         | 67996-108HLF<br>HTSW-104-07-SM-D                              | FCI FRAMATOME BERG<br>SAMTEC                                    |
| REF J5                | 1   | 1258-0209   | JUMPER-REMOVABLE 2 POSITION; .250 IN     | 68786-202LF<br>382811-6                                       | FCI FRAMATOME BERG<br>TYCO ELECTRONICS AMP                      |
| J6, J9                | 2   | 1251-4927   | CONN-HDR VERT 16-PIN 2.54 MM 2 ROW       | 67997-116HLF  | FCI FRAMATOME BERG  |
| J7, J8                | 2   | 1251-8417   | CONN-POST TYPE .100-PIN-SPCG-MTG-END     | 68021-616HLF  | FCI FRAMATOME BERG  |
| L2, L3, L4            | 3   | 9170-1454   | CORE-SHIELDING BEAD                      | 4330-030-55861  | FERROXCUBE USA  |
| Q1, Q4                | 2   | 1853-0089   | TRANSISTOR PNP 2N4917 SI PD=625MW        |   |   |
| R1, R32, R48          | 3   | 0757-0457   | RESISTOR 47.5K +-1pct .125W TF TC=0+-100 | 5053HD47K50F<br>CMF-554752FT-1<br>NK4H.125W1%+-<br>100PPM4752 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS              |
| R8-R11, R34, R41, R50 | 7   | 0757-0401   | RESISTOR 100 +-1pct .125W TF TC=0+-100   | 5053HD100R0F<br>CMF-551000FT-1                                | VISHAY BC COMPONENTS<br>VISHAY                                  |

### 5063-3463 GPIB Assembly Parts List

| Reference Designator   | QTY | Agilent P/N | Description                               | MPN   | Manufacturer                                       |
|--|-----|-------------|---|---|--|
| R101, R33, R49   | 3   | 0698-6360   | RES-FXD 10K +-0.1PCT 0.125W TC 0+-25 0207 | CMF-551002BT-9<br>MBB0207-25 0.1%__10K                          | VISHAY<br>VISHAY BC COMPONENTS                     |
| R102, R59, R60, R62, R63,  | 7   | 0698-3558   | RESISTOR 4.02K +-1pct .125W TF TC=0+-100  | 5053HD4K020F<br>CMF-554021FT-1<br>NK4H.125W1%+/-<br>100PPM4021  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R103, R76  | 2   | 0698-3455   | RESISTOR 261K +-1pct .125W TF TC=0+-100   | 5053HD261K0F<br>CMF-552613FT-1<br>NK4H.125W1%+/-<br>100PPM2613  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R106   | 1   | 1810-0206   | NET-RES 7 10.0K OHM 8-PIN                 | 750-81<br>MSP08A01-103G<br>4308R-94Y-103LF                      | TT ELECTRONICS<br>VISHAY<br>BOURNS                 |
| R109, R110, R12, R2,<br>R20, R21, R22, R4, R7,<br>R83, R84, R85, R86, R87,<br>R88, R90, R98, R99 | 18  | 0698-3155   | RESISTOR 4.64K +-1pct .125W TF TC=0+-100  | 5053HD4K640F<br>CMF-554641FT-1<br>NK4H.125W1%+/-<br>100PPM4641  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R111, R36, R44   | 3   | 0757-0316   | RESISTOR 42.2 +-1pct .125W TF TC=0+-100   | 5053HD42R20F<br>CMF-5542R2FT-1<br>NK4H.125W1%+/-<br>100PPM42R2  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R112   | 1   | 1810-0305   | NET-RES 8 4.7K OHM 9-PIN                  | 908-472G<br>CSC09A01-472K                                       | EPITEK ELECT<br>VISHAY                             |
| R14, R23, R82  | 3   | 0698-0082   | RESISTOR 464 +-1pct .125W TF TC=0+-100    | 5053HD464R0F<br>CMF-554640FT-1<br>NK4H.125W1%+/-<br>100PPM464R0 | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |
| R15, R16, R17, R6  | 4   | 0698-4037   | RESISTOR 46.4 +-1pct .125W TF TC=0+-100   | 5053HD46R40F<br>CMF-5546R4FT-1<br>NK4H.125W1%+/-<br>100PPM46R4  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS |

**5063-3463 GPIB Assembly Parts List**

| Reference Designator | QTY | Agilent P/N | Description                                   | MPN  | Manufacturer   |
|----------------------|-----|-------------|---|--|--|
| R18, R65, R89        | 3   | 0757-0280   | RESISTOR 1K +-1pct .125W TF TC=0+-100         | 5053HD1K000F<br>CMF-551001FT-1<br>NK4H.125W1%+/-<br>100PPM1001   | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS             |
| R19                  | 1   | 0698-8827   | RESISTOR 1M +-1pct .125W TF TC=0+-100         | 5053HD1M000F<br>CMF-551004FT-1                                   | VISHAY BC COMPONENTS<br>VISHAY                                 |
| R24, R26, R52, R78   | 4   | 0698-3156   | RESISTOR 14.7K +-1pct .125W TF TC=0+-100      | 5053HD14K70F<br>CMF-551472FT-1<br>NK4H.125W1%+/-<br>100PPM1472   | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS             |
| R28, R35, R43        | 3   | 0699-0059   | RESISTOR 5K +-0.1pct .1W TF TC=0+-5           | PR1/10TC55K0.1%<br>PTF-565K0BT-16<br>UXBA5K0000B                 | PRECISION RESISTIVE PRODUCTS<br>VISHAY<br>VISHAY BC COMPONENTS |
| R29, R40, R51        | 3   | 2100-3353   | RESISTOR-TRMR 20K 10pct TKF SIDE-ADJ<br>1-TRN | 2100-3353<br>3386X-Y46-203                                       | MURATA MANUFACTURING<br>BOURNS                                 |
| R3                   | 1   | 0757-0442   | RESISTOR 10K +-1pct .125W TF TC=0+-100        | 5053HD10K00F<br>CMF-551002FT-1<br>NK4H.125W1%+/-<br>100PPM1002   | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS             |
| R30, R37, R45        | 3   | 0699-0642   | RESISTOR 10K +-0.1pct .1W TF TC=0+-5          | PR1/10TC510K0.1%<br>PTF-5610K0BT-16<br>UXB0207-05 0,1% RP<br>10K | PRECISION RESISTIVE PRODUCTS<br>VISHAY<br>VISHAY BC COMPONENTS |
| R39                  | 1   | 0757-0270   | RESISTOR 249K +-1pct .125W TF TC=0+-100       | 5053HD249K0F<br>CMF-552493FT-1<br>NK4H.125W1%+/-<br>100PPM2493   | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS             |
| R42, R46             | 2   | 0757-0411   | RESISTOR 332 +-1pct .125W TF TC=0+-100        | 5053HD332R0F<br>CMF-553320FT-1<br>NK4H.125W1%+/-<br>100PPM332R0  | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS             |
| R5                   | 1   | 0699-1797   | RESISTOR 10M +-5pct .25W CF TC=0-1000         | CF 1/4 C ___ 106 J<br>CF1/ 10M5%                                 | KOA<br>ASJ   |

**5063-3463 GPIB Assembly Parts List**

| Reference Designator | QTY | Agilent P/N | Description                                  | MPN   | Manufacturer  |
|----------------------|-----|-------------|--|---|---|
| R55, R58, R61        | 3   | 2100-3732   | RESISTOR-TRMR 500 10pct TKF SIDE-ADJ         | 3105X501<br>3296X-DM3-501<br>67XR   | MURATA MANUFACTURING<br>BOURNS<br>T T GROUP                     |
| R67, R69, R71        | 3   | 0698-6320   | RES-FXD 5K +-0.1PCT 0.125W TC 0+-25 0207     | CMF-555001BT-9<br>MBB0207-25 0.1%__5K   | VISHAY<br>VISHAY BC COMPONENTS                                  |
| R68, R70, R72        | 3   | 0757-0400   | RESISTOR 90.9 +-1pct .125W TF TC=0+-100      | MFS 1/4 D C ____ 90R9 F<br>5053HD90R90F<br>CMF-5590R9FT-1<br>NK4H.125W1%+/-<br>100PPM90R9 | KOA<br>VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS       |
| R73                  | 1   | 0757-0451   | RESISTOR 24.3K +-1pct .125W TF TC=0+-100     | 5053HD24K30F<br>CMF-552432FT-1<br>NK4H.125W1%+/-<br>100PPM2432                            | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS              |
| R74                  | 1   | 0757-0199   | RESISTOR 21.5K +-1pct .125W TF TC=0+-100     | 5053HD21K50F<br>CMF-552152FT-1<br>NK4H.125W1%+/-<br>100PPM2152                            | VISHAY BC COMPONENTS<br>VISHAY<br>E-SIL COMPONENTS              |
| R75                  | 1   | 2100-3273   | RESISTOR-TRMR 2K 10pct TKF SIDE-ADJ<br>1-TRN | 3386X-Y46-202<br>PV34X202C30  | BOURNS<br>MURATA MANUFACTURING                                  |
| R79, R80             | 2   | 8159-0005   | RESISTOR 0 CWM                               | 106<br>L-2007-1<br>YZO 1/4<br>Z-25<br>Z25C  | MICRO-OHM<br>GETTIG ENGRG & MFG<br>TT ELECTRONICS<br>ASJ<br>KOA |
| S1                   | 1   | 3101-1973   | SWITCH-DIP SL 7-1A 0.1A 50VDC                | 11P-2031  | CTS   |
| TB1                  | 1   | 0360-2312   | TERMINAL BLOCK 4-TERM .039 IN SQUARE         | ELFH04110<br>MSTBA 2.5/4-G-<br>BLK(176064)<br>871904                                      | PCD<br>PHOENIX CONTACT & CO<br>AXSYS TECHNOLOGIES               |
| U1                   | 1   | 1826-0468   | IC PWR MGT-OV-V-SEN 2.3/37.8V 8 PINS         | MC3423P1G   | ON SEMICONDUCTOR  |
| U11, U7, U9          | 3   | 1826-2187   | D/A 12-BIT 20-PLASTIC CMOS                   | AD7545LNZ   | ANALOG DEVICES  |
| U115                 | 1   | 1820-6045   | IC INTERFACE XCVR BIPOLAR INSTRUMENT<br>BUS  | SN75ALS161N   | TEXAS INSTRUMENTS   |
| U116                 | 1   | 1820-6170   | IC INTERFACE XCVR BIPOLAR BUS OCTL           | SN75ALS160N   | TEXAS INSTRUMENTS   |

### 5063-3463 GPIB Assembly Parts List

| Reference Designator                 | QTY | Agilent P/N | Description  | MPN  | Manufacturer  |
|--------------------------------------|-----|-------------|--|--|---|
| U117                                 | 1   | 1822-1330   | IC GPIB CONTROLLER 40-PDIP   | 14063-502  | AMIS SEMICONDUCTOR  |
| U12                                  | 1   | 1820-3210   | IC ASYNCH. COMMUN INTERFACE ADAPTER  |  |   |
| U13                                  | 1   | 1990-1074   | S1C-LTB  | 4N35-M   | FAIRCHILD SEMICONDUCTOR   |
| U14                                  | 1   | 1821-1479   | IC 16-BIT MCU 16-MHZ CMOS 68-PLCC  | C  | INTEL   |
| REF U14                              | 1   | 1200-1274   | SOCKET-IC-PLCC 68-CONT SQUARE<br>DIP-SLDR  | 1-822473-6<br>PLCC68PT2  | TYCO ELECTRONICS AMP<br>FCI FRAMATOME BERG  |
| U16                                  | 1   | 1820-2724   | IC LCH TTL/ALS TRANSPARENT OCTL  | DM74ALS573BN<br>SN74ALS573CN   | FAIRCHILD SEMICONDUCTOR<br>TEXAS INSTRUMENTS  |
| U19                                  | 1   | 1826-0161   | IC OP AMP GP QUAD 14 PIN DIP-P   | LM324NNOPB   | NATIONAL SEMICONDUCTOR  |
| U2                                   | 1   | 5080-2157   | IC-PRGMD GAL   |  |   |
| U20                                  | 1   | 1826-0609   | ANALOG MULTIPLEXER 8 CHNL 16 -CERDIP   | MUX-08FQ   | ANALOG DEVICES  |
| U24                                  | 1   | 1826-1475   | IC COMPARATOR GP 8 PIN DIP-P   | LT1011CN8  | LINEAR TECHNOLOGY   |
| U25, U64, U65, U66, U67,<br>U68, U69 | 7   | 1826-1896   | IC OP AMP PRCN 8 PIN DIP-P   | LT1001CN8<br>LT1001CN8   | LINEAR TECHNOLOGY<br>MAXIM INTEGRATED PRODUCTS  |
| U28, U32                             | 2   | 1990-1502   | OPTO-ISOLATOR LED-PDIO IF=8MA-MAX<br>BVR=5V  | HCPL-4503-000E   | AVAGO TECHNOLOGIES  |
| U2a                                  | 1   | 1820-5398   | IC PLD EEPLD UNPRGMD CMOS GAL16V8  | GAL16V8D-25QP  | LATTICE SEMICONDUCTOR   |
| U31                                  | 1   | 1820-6789   | IC INTERFACE XCVR BIPOLAR LINE<br>GENERAL  | SN75176BP<br>DS75176BNNOPB   | TEXAS INSTRUMENTS<br>NATIONAL SEMICONDUCTOR   |
| U33                                  | 1   | 1820-0430   | IC PWR MGT-V-REG-FXD-POS 4.8/5.2V  | LM309K STEEL-NOPB  | NATIONAL SEMICONDUCTOR  |
| REF U33                              | 1   | 1205-0834   | HEAT SINK MOD  | 1205-0834  | AAVID THERMALLOY  |
| REF U33                              | 2   | 0515-1146   | SCREW-MACHINE ASSEMBLY M3 X 0.5<br>6MM-LG ; SCREW-MACHINE ASSEMBLY ;<br>M3.0 X 0.50; 6 MM LONG; POZIDRIV ;<br>RECESS, PAN; STAINLESS STEEL-300 ;<br>SERIES, PASSIVATED FINISH; ; EXTERNAL<br>TOOTH LOCKWASHER IFI ; TYPE A; PER IFI<br>NO. 513/531/532 | 0515-1146<br>0515-1146<br>0515-1146<br>0515-1146<br>SMME0300060D-<br>PPENSVN | HOUSE OF METRICS<br>ILLINOIS TOOL WORKS<br>MID-CONTINENT SCREW PROD<br>TEXTRON<br>EXIM & MFR ENTERPRISE |
| U35                                  | 1   | 5080-2156   | IC-PRGMD GAL   |  |   |
| U35a                                 |     | 1820-5398   | IC PLD EEPLD UNPRGMD CMOS GAL16V8  | GAL16V8D-25QP  | LATTICE SEMICONDUCTOR   |
| U36                                  | 1   | 5080-2625   | IC-PRGMD GAL   |  |   |
| U36a                                 |     | 1820-5398   | IC PLD EEPLD UNPRGMD CMOS GAL16V8  | GAL16V8D-25QP  | LATTICE SEMICONDUCTOR   |
| U37                                  | 1   | 1820-4185   | IC INTERFACE DRVR BIPOLAR LINE HIGH  | DS3658N-NOPB   | NATIONAL SEMICONDUCTOR  |
| U4                                   | 1   | 5185-1399   | Programmed Processor 1822-1762   |  |   |
| Ref U4                               | 1   | 1822-1762   | IC MCU W/ROM 4KX8 CMOS 40-DIP  | P87C51SBPN<br>P87C51SBPN   | PHILIPS<br>NXP  |
| U5                                   | 1   | 1826-1369   | IC PWR MGT-V-REF-FXD 9.95/10.05V 8 PINS  | LT1021DCN8-10  | LINEAR TECHNOLOGY   |
| U6                                   | 1   | 5080-2624   | IC-PRGMD EPROM   |  |   |
| U6a                                  |     | 1818-4855   | IC 512K-BIT OTP 90-NS CMOS   | M27C512-90B6   | STMICROELECTRONICS  |



### 5063-3463 GPIB Assembly Parts List

| Reference Designator | QTY | Agilent P/N | Description  | MPN                                      | Manufacturer   |
|----------------------|-----|-------------|--|--|--|
| U70                  | 1   | 1818-3921   | IC 1K-BIT EEPROM 250-NS CMOS 8-PDIP                            | AT93C46E-PU                              | ATMEL  |
| U8                   | 1   | 1818-4134   | IC 64K BIT SRAM 20-NS CMOS 28-DIP                              | CY7C185-20PXC                            | CYPRESS SEMICONDUCTOR                                  |
| VR2                  | 1   | 1902-0959   | DIODE-ZNR 11V 5pct DO-35 PD=.4W<br>TC=+.076pct                 | 1N962B                                   | MICROSEMI  |
| VR3, VR4             | 2   | 1902-0049   | DIODE-ZNR 6.19V 5pct DO-35 PD=.4W                              | 1N5234BD035                              | MICRO COMMERCIAL COMPONENTS                            |
| VR6, VR7, VR8        | 3   | 1902-0766   | DIODE-ZNR 18.2V 5pct DO-35 PD=.4W                              | 1N5248B                                  | MICRO COMMERCIAL COMPONENTS                            |
| XU6                  | 1   | 1200-0567   | SOCKET-IC-DIP 28-CONT DIP DIP-SLDR                             | 1-390262-2<br>DILB28P223TLF              | TYCO ELECTRONICS AMP<br>FCI FRAMATOME BERG             |
| Y1, Y2               | 2   | 0410-2109   | CRYSTAL-QUARTZ 12.000 MHZ                                      | AT-51-12.000MHZ<br>HC49S-12MHZ<br>KD2109 | NIHON DEMP A KOGYO<br>FOX ELECTRONICS<br>KYUSHU DENTSU |
|                      | 1   | 9170-1680   | EMI-FERRITE CHIP 4 LINE PAK; 126 OHMS                          |  |  |
|                      | 1   | 0380-1668   | STANDOFF-RVT-ON 10-MM-LG<br>M4.0 X 0.7-THD ; STANDOFF-RIVET-ON | 0380-1668<br>21057B-B-0470-14            | LYN-TRON<br>MITE                                       |

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