

## 1.2. Circuit Diagram & Parts List

1)UNC Network Control Board

| Symbol                  | OKI Part No.  | Description                                | Q'ty | Remarks         |
|-------------------------|---------------|--------------------------------------------|------|-----------------|
| I                       | 40002999      | PCB-UNC                                    | 1    | ISSUE 2         |
| AR1,2                   | 543A1104G0351 | SRH412-351MFT Arrester                     | 4    |                 |
| C1                      | 306A2221K5474 | ECQ-E2474KF 250V<br>CF Capacitor 0.47uF    | 2    |                 |
| C4                      |               | SME35VB47BP 35V<br>CE Capacitor 47uF       | 2    |                 |
| C30                     | 304A1122A1101 | SME10VB-100BP-OA 10V<br>CE Capacitor 100uF | 2    |                 |
| C31                     | 306A2221K5104 | ECQ-E2104KF 250V<br>CF Capacitor 0.1uF     | 2    |                 |
| C508                    | 303A6008Z3104 | CK2012F1H104Z 50V<br>CK Capacitor 0.1uF    | 2    |                 |
| CN1                     | 223A3436P0001 | TM5RE2V-66 Modular Jack                    | 2    | M               |
| CN2                     | 223A3437P0001 | TM5RE3V-1212 Modular Jack                  | 2    | M               |
| CN3                     | 224A4335P0300 | I-176837-4 PC Connector                    | 2    | M               |
| IC1                     | 652A0125M0008 | TLP521-1-GR Photo Coupler                  | 2    | U               |
| IC2                     | 652A0125M0014 | TLP620 Photo Coupler                       | 2    | U               |
| IC10                    | 760A0403M0701 | 2003P Transistor Array                     | 2    |                 |
| D3,4                    | 613A1231L0252 | RD20E-B Zener DI                           | 4    | 4KH-31051-102   |
| D13,14                  | 613A1231L0162 | RD8. 2E-B Zener DI                         | 4    | 4KH-31051-102   |
| D502                    | 611A0000N0003 | SS100MA80VSCP Signal DI (CP)               | 2    |                 |
| R2,5                    | 324A1111J0163 | MOR1B16KohmJ RS Resistor                   | 4    | 4KH-31050-152 W |
| R10,11                  | 324A1111J0181 | MOR1B180KohmJ RS Resistor                  | 4    | 4KH-31050-152 W |
| R504                    | 323A5003J0681 | RM73B2A681J RN Resistor (CP)               | 2    |                 |
| R529,530                | 323A5003J0103 | RM73B2A103J RN Resistor (CP)               | 4    |                 |
| R508-R512,<br>R551-R554 | 323A5003P0001 | 2125JPW Chip Jumper (CP)                   | 18   |                 |
| R523,536                | 323A5003J0301 | RM73B2A301J RN Resistor (CP)               | 4    |                 |
| R574                    | 323A5003J0333 | RM73B2A333J RN Resistor (CP)               | 2    |                 |
| R575                    | 323A5003J0620 | RM73B2A620J RN Resistor (CP)               | 2    |                 |
| R576                    | 323A5003J0511 | RM73B2A511J RN Resistor (CP)               | 2    |                 |

Title: PCB Assy. -UNC  
 DRW No. : 40002901BT - 1/2



## 1.2. Circuit Diagram & Parts List

### 2) Power Supply Board (Low Voltage)

| MARKED                                    | QT' | COMPONENTS                                   | MANUFACTURE                                                     |
|-------------------------------------------|-----|----------------------------------------------|-----------------------------------------------------------------|
| D11, 12, 13, 14                           | 4   | DIODE ERA15-06                               | FUJI ELECTRIC CO., LTD.                                         |
| D102                                      | 1   | DIODE YG811S06R                              | FUJI ELECTRIC CO., LTD.                                         |
| D101                                      | 1   | DIODE YG911S2R                               | FUJI ELECTRIC CO., LTD.                                         |
| D6, 7, 107                                | 3   | DIODE 1SS133                                 | ROHM CO., LTD.                                                  |
| D103                                      | 1   | DIODE ERA22-06                               | FUJI ELECTRIC CO., LTD.                                         |
| D105, 106                                 | 2   | ZENER DIODE HZ-24                            | HITACHI LTD.                                                    |
| D8                                        | 1   | ZENER DIODE HZS9                             | HITACHI LTD.                                                    |
| TRA1                                      | 1   | TRIODE AC SEMICONDUCTOR<br>SWITCH SM12JZ47   | TOSHIBA CORP. INTERNATIONAL<br>OPERATIONS-ELECTRONIC COMPONENTS |
| Q101                                      | 1   | TRANSISTOR 2SB1568                           | ROHM CO., LTD.                                                  |
| Q102                                      | 1   | TRANSISTOR 2SA1757                           | ROHM CO., LTD.                                                  |
| Q105, 106                                 | 2   | TRANSISTOR 2SA933S                           | ROHM CO., LTD.                                                  |
| Q104, 107                                 | 2   | TRANSISTOR 2SC1740S                          | ROHM CO., LTD.                                                  |
| Q103                                      | 1   | TRANSISTOR 2SC1741AS                         | ROHM CO., LTD.                                                  |
| Q1                                        | 1   | FET 2SK2717                                  | TOSHIBA CORP. INTERNATIONAL<br>OPERATIONS-ELECTRONIC COMPONENTS |
| IC102                                     | 1   | INTEGRATED CIRCUIT TA78M24S                  | TOSHIBA CORP. INTERNATIONAL<br>OPERATIONS-ELECTRONIC COMPONENTS |
| IC151                                     | 1   | INTEGRATED CIRCUIT 431                       | TOSHIBA CORP. INTERNATIONAL<br>OPERATIONS-ELECTRONIC COMPONENTS |
| IC1                                       | 1   | INTEGRATED CIRCUIT H8D2877                   | MURATA MFG. CO., LTD.                                           |
| PC1, 2                                    | 2   | OPTICAL ISOLATER PC123FY8                    | SHARP CORP. ELECTRONIC COMPONENTS GROUP.                        |
| PC4                                       | 1   | OPTICAL ISOLATER S21ME6                      | SHARP CORP. ELECTRONIC COMPONENTS GROUP.                        |
| Z1                                        | 1   | TRANSIENT VOLTAGE<br>SURGE SUPPRESSOR ENC471 | FUJI ELECTRIC CO., LTD.                                         |
| NTC1                                      | 1   | NTC THERMISTOR                               | MURATA MFG. CO., LTD.                                           |
| R19                                       | 1   | RESISTOR 1/4W 10 $\Omega$                    |                                                                 |
| R21                                       | 1   | RESISTOR 1/4W 22 $\Omega$                    |                                                                 |
| R9                                        | 1   | RESISTOR 1/4W 68 $\Omega$                    |                                                                 |
| R24                                       | 1   | RESISTOR 1/4W 150 $\Omega$                   |                                                                 |
| R114, 150                                 | 2   | RESISTOR 1/4W 220 $\Omega$                   |                                                                 |
| R7                                        | 1   | RESISTOR 1/4W 330 $\Omega$                   |                                                                 |
| R6                                        | 1   | RESISTOR 1/4W 470 $\Omega$                   |                                                                 |
| R151, 152                                 | 2   | RESISTOR 1/4W 1k $\Omega$                    |                                                                 |
| R115                                      | 1   | RESISTOR 1/4W 2.2k $\Omega$                  |                                                                 |
| R113                                      | 1   | RESISTOR 1/4W 3.9k $\Omega$                  |                                                                 |
| R107, 109, 156, 157                       | 4   | RESISTOR 1/4W 4.7k $\Omega$                  |                                                                 |
| R153                                      | 1   | RESISTOR 1/4W 6.8k $\Omega$                  |                                                                 |
| R154                                      | 1   | RESISTOR 1/4W 8.2k $\Omega$                  |                                                                 |
| R101, 102, 108, 110, 112<br>116, 155, 158 | 8   | RESISTOR 1/4W 10k $\Omega$                   |                                                                 |
| R117, 118                                 | 2   | RESISTOR 1/4W 15k $\Omega$                   |                                                                 |
| R13                                       | 1   | RESISTOR 1/4W 18k $\Omega$                   |                                                                 |
| R15                                       | 1   | RESISTOR 1/4W 27k $\Omega$                   |                                                                 |
| R122                                      | 1   | RESISTOR 1/4W 100k $\Omega$                  |                                                                 |
| R103                                      | 1   | RESISTOR 1/4W 220k $\Omega$                  |                                                                 |
| R3                                        | 1   | RESISTOR 1/4W 470k $\Omega$                  |                                                                 |

| MARKED              | QT' | COMPONENTS                                | MANUFACTURE                              |
|---------------------|-----|-------------------------------------------|------------------------------------------|
| R2                  | 1   | RESISTOR 1/4W 680k $\Omega$               |                                          |
| R11                 | 1   | RESISTOR 1/4W 6.8k $\Omega$               |                                          |
| R22                 | 1   | RESISTOR 1/6W 10 $\Omega$                 |                                          |
| R111                | 1   | RESISTOR 1W 56 $\Omega$                   |                                          |
| VR151               | 1   | RESISTOR 1/10W 5k $\Omega$                |                                          |
| C9, 13              | 2   | CERAMIC CAPACITOR 50V 100 pF              | MURATA MFG. CO., LTD.                    |
| C150                | 1   | CERAMIC CAPACITOR 50V 0.1 $\mu$ F         | MURATA MFG. CO., LTD.                    |
| C7, 15              | 2   | CERAMIC CAPACITOR VA3 3300 pF             | MURATA MFG. CO., LTD.                    |
| C8                  | 1   | CERAMIC CAPACITOR 2kV 47 pF               | MURATA MFG. CO., LTD.                    |
| C1                  | 1   | FILM CAPACITOR AC250V 0.1 $\mu$ F<br>(RE) | OKAYA ELECTRIC INDUSTRIES CO., LTD.      |
| C10                 | 1   | FILM CAPACITOR 50V 0.01 $\mu$ F           |                                          |
| C107                | 1   | ELECTROLYTIC 35V 560 $\mu$ F<br>CAPACITOR |                                          |
| C104, 109, 111, 130 | 4   | ELECTROLYTIC 35V 82 $\mu$ F<br>CAPACITOR  |                                          |
| C105                | 1   | ELECTROLYTIC 50V 180 $\mu$ F<br>CAPACITOR |                                          |
| C5                  | 1   | ELECTROLYTIC 400V 68 $\mu$ F<br>CAPACITOR |                                          |
| L1                  | 1   | INDUCTOR ELF18D                           | MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. |
| L101                | 1   | INDUCTOR                                  |                                          |
| T1                  | 1   |                                           |                                          |
| BEA1                | 1   | FERRITE BEADS BLO1RN1-R62                 | MURATA MFG. CO., LTD.                    |
| F102                | 1   | FUSE AC125V 2.0A                          | LITTELFUSE INC.                          |
| F103                | 1   | FUSE AC250V 0.2A                          | BUSSMANN INTERNATIONAL INC.              |
| F1                  | 1   | FUSE AC250V T4.0A                         | LITTELFUSE INC.                          |
| CN1                 | 1   | CONNECTOR 5277-02A                        | MOLEX INC.                               |
| CN101               | 1   | CONNECTOR S12B-XH-A-1                     | JAPAN SOLDERLESS TERMINAL MFG. CO., LTD. |
| CN2                 | 1   | CONNECTOR B2P3-VH                         | JAPAN SOLDERLESS TERMINAL MFG. CO., LTD. |

## 1.2. Circuit Diagram & Parts List

### 3) P2H Power Supply Board (Main High Voltage)

| Rev | NO.                         | Part NO.       | Part Name                               | Q'ty. | Unit | Use | Notes              | Drawing |
|-----|-----------------------------|----------------|-----------------------------------------|-------|------|-----|--------------------|---------|
| 1   | 1                           | 40599199       | PCB-P2H                                 | 1     |      |     | FCC ID: BDBF21002A | 2YU     |
| 2   |                             |                |                                         |       |      |     |                    |         |
| 3   | D60, D61, D68, D69          | 611A0003L0001  | 1S953/1S2075K/1S2473<br>D-Signal -      | 4     |      |     | 4KH-31051-102      |         |
| 4   | D63, D67, D72, D74          | 610A0003M0002  | DHM3FJ60/ESJA58-06<br>D-Rectifying -    | 4     |      |     | 4KH-31051-127      |         |
| 5   | D51, D55-D59, D62, D71, D84 | 6100003M0001   | EU02A/RL105F-F<br>D-Rectifying -Q       | 9     |      |     | 4KH-31051-102      |         |
| 6   | D52                         | 613A2003M0001  | 1ZB300-Y/Z<br>D-Zener -                 | 1     |      |     | 4KH-31051-102      |         |
| 7   | D65, D66                    | 613A2258M0350  | 1ZB390<br>D-Zener -                     | 2     |      |     | 4KH-31051-102      |         |
| 8   | D76                         | 613A1231L0262B | RD22E-B2<br>D-Zener -                   | 1     |      |     | 4KH-31051-102      |         |
| 9   | D82                         | 613A1231L0282A | RD27E-B1<br>D-Zener -                   | 1     |      |     | 4KH-31051-102      |         |
| 10  | D87                         | 613A1231L0522  | RD200E-B<br>D-Zener -                   | 1     |      |     | 4KH-31051-102      |         |
| 11  | D85                         | 6132003M0001   | 1ZB270-Y/Z(TPA2)<br>D-Zener -Q          | 1     |      |     | 4KH-31051-102      |         |
| 12  |                             |                |                                         |       |      |     |                    |         |
| 13  | R234                        | 321A1421J0330  | RD1/4Y33ohmJ<br>RES-Carbon flm-         | 1     |      |     | 4KH-31051-127      |         |
| 14  | R47, R48                    | 321A1421J0131  | RD1/4Y130ohmJ<br>RES-Carbon flm-        | 2     |      |     | 4KH-31051-127      |         |
| 15  | R102, R116, R121            | 321A1421J0331  | RD1/4Y330ohmJ<br>RES-Carbon flm-        | 3     |      |     | 4KH-31051-127      |         |
| 16  | R103, R123                  | 321A1421J0102  | RD1/4Y1KohmJ<br>RES-Carbon flm-         | 2     |      |     | 4KH-31051-127      |         |
| 17  | R118                        | 321A1421J0472  | RD1/4Y4.7KohmJ<br>RES-Carbon flm-       | 1     |      |     | 4KH-31051-127      |         |
| 18  | R122, R124, R129            | 321A1421J0512  | RD1/4Y5.1KohmJ<br>RES-Carbon flm-       | 3     |      |     | 4KH-31051-127      |         |
| 19  | R105                        | 321A1421J0243  | RD1/4Y24KohmJ<br>RES-Carbon flm-        | 1     |      |     | 4KH-31051-127      |         |
| 20  | R104                        | 321A1421J0753  | RD1/4Y75KohmJ<br>RES-Carbon flm-        | 1     |      |     | 4KH-31051-127      |         |
| 21  | R235                        | 321A1421J0104  | RD1/4Y100KohmJ<br>RES-Carbon flm-       | 1     |      |     | 4KH-31051-127      |         |
| 22  | R228, R233                  | 321A1421J0105  | RD1/4Y1MohmJ<br>RES-Carbon flm-         | 2     |      |     | 4KH-31051-127      |         |
| 23  | R100                        | 321A1421J0305  | RD1/4Y3MohmJ<br>RES-Carbon flm-         | 1     |      |     | 4KH-31051-127      |         |
| 24  | R115                        | 323A1222F5763  | RNL1/4C3F576Kohm<br>RES-MET RN -        | 1     |      |     | 4KH-31051-127      |         |
| 25  | R114, R236                  | 3263103K0107   | MRH100MK/HV-38-100MK<br>RES-MET solid - | 2     |      |     | U                  |         |
| 26  | 2 R237                      | 321A1421J0519  | RD1/4Y5.1ohmJ<br>RES-Carbon flm-        | 1     |      |     | 4KH-31051-127      |         |
| 27  | 2 R238                      | 3213420J0152   | RD16UJ1.5Kohm<br>RES-Carbon flm-        | 1     |      |     | U                  |         |
| 28  |                             |                |                                         |       |      |     |                    |         |

|     |          |          |                       |               |                        |  |  |  |
|-----|----------|----------|-----------------------|---------------|------------------------|--|--|--|
| BT  |          | AA Size  | Relation Drawing code | 2YU           | Oki Data Corporation   |  |  |  |
| Rev | Date     | DCO No.  | Design                | Design        | Name:<br>PCB Assy.-P2H |  |  |  |
| 2   | 98.02.13 | SQ6-0116 | 坂本 範登                 | 坂本 範登         |                        |  |  |  |
|     |          |          |                       | Check 小森 智裕   | Parts List             |  |  |  |
|     |          |          |                       | Approval 内田 孝 |                        |  |  |  |
|     |          |          |                       |               | Drawing No.            |  |  |  |

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| Rev | NO.                                                              | Part NO.        | Part Name                                | Q'ty. | Unit | Use | Notes              | Drawing |
|-----|------------------------------------------------------------------|-----------------|------------------------------------------|-------|------|-----|--------------------|---------|
| 29  | C105, C107, C119, C240, C241                                     | 3024003K7471    | HNY5P/DE07-1KV-471K<br>CAP-Ceramic -P    | 5     |      |     |                    |         |
| 30  | C113, C114, C117                                                 | 3024203K2471    | DE07/HCYB3F471<br>CAP-Ceramic -Z         | 3     |      |     | FCC ID: BDBF21002A |         |
| 31  | C112                                                             | 302A4028K4471   | DE1010B471K6K 6KV<br>CAP-Ceramic -       | 1     |      |     |                    |         |
| 32  | C101, C102, C106                                                 | 3024003K6471    | HLY5P/DD05-500V-471K<br>CAP-Ceramic -P   | 3     |      |     |                    |         |
| 33  | C103, C104, C108, C110, C111, C115, C237, C251, C300, C301, C311 | 3034003Z3104    | MLRD/FK16Y5V1H104Z<br>CAP-Ceramic -N     | 11    |      |     |                    |         |
| 34  | C116                                                             | 3034003Z3473    | MLRD/FK16Y5V1H473Z<br>CAP-Ceramic -N     | 1     |      |     |                    |         |
| 35  | C118                                                             | 3064003J2103    | MY2A/CQMF-100V-103J<br>CAP-Plast flm -P  | 1     |      |     |                    |         |
| 36  | C302, C310                                                       | 3064003J2472    | CQMF/MY2A472J-T 100V<br>CAP-Plast flm -P | 2     |      |     |                    |         |
| 37  | C236                                                             | 3041003J1100    | UVX/SME-63V-10uF 63V<br>CAP-Alum(CE) -P  | 1     |      |     |                    |         |
| 38  |                                                                  |                 |                                          |       |      |     |                    |         |
| 39  | Q11, Q13                                                         | 622A0003M0001   | BCR1AM-12/MAC97-008<br>THY-Bi/Dir -      | 2     |      |     |                    |         |
| 40  | Q12                                                              | 620A0022M0008   | CRO4AM-12<br>THY-Gate -                  | 1     |      |     |                    |         |
| 41  | Q21-Q23                                                          | 602A1025M0006Y  | 2SC1815-Y<br>TR-NPN/H-FREQ -             | 3     |      |     |                    |         |
| 42  | Q15-Q17                                                          | 602A1125M0039Y  | 2SC2235-Y<br>TR-NPN/H-FREQ -             | 3     |      |     |                    |         |
| 43  | Q10                                                              | 602A1223M0039   | 2SC2752<br>TR-NPN/H-FREQ -               | 1     |      |     |                    |         |
| 44  |                                                                  |                 |                                          |       |      |     |                    |         |
| 45  | L10                                                              | 3502003P0102    | C-14576/SA-8506183<br>Coil-Choke -       | 1     |      |     | U                  |         |
| 46  |                                                                  |                 |                                          |       |      |     |                    |         |
| 47  | T2-T4                                                            | YB4049-7078P003 | HIGH VOLTAGE TRANSFO<br>RMER             | 3     |      |     |                    | 4YB     |
| 48  |                                                                  |                 |                                          |       |      |     |                    |         |
| 49  | PS1-PS4                                                          | 652A0103M0002   | RPI-574/#9568<br>PHOTO-Coupler -         | 4     |      |     | MW                 |         |
| 50  |                                                                  |                 |                                          |       |      |     |                    |         |
| 51  | CVSW                                                             | 2071003P0001    | SM05S/SS5GL13<br>Switch-Micro -          | 1     |      |     | UMW                |         |
| 52  |                                                                  |                 |                                          |       |      |     |                    |         |
| 53  | LED                                                              | 6500003M0001    | SEL3910D/204AD<br>PHOTO-LED -            | 1     |      |     |                    |         |
| 54  |                                                                  |                 |                                          |       |      |     |                    |         |

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|     |          |          |         |                          |     |                      |
|-----|----------|----------|---------|--------------------------|-----|----------------------|
|     |          | BT       | AA Size | Relation Drawing<br>code | 2YU | Oki Data Corporation |
| Rev | Date     | DCO No.  |         | Design                   |     | Name:                |
| 2   | 98.02.13 | SQ6-0116 |         | 坂本 範登                    |     | PCB Assy. -P2H       |
|     |          |          |         | Check 小森 智裕              |     | Parts List           |
|     |          |          |         | Approval 内田 隆雄           |     | Drawing No.          |

| Rev | NO.                       | Part NO.      | Part Name                       | Q'ty. | Unit | Use | Notes                   | Drawing |
|-----|---------------------------|---------------|---------------------------------|-------|------|-----|-------------------------|---------|
| 55  | CN1                       | 224A4134P0230 | 23FE-BT-VK-N<br>Connector-PCB - | 1     |      |     | U                       |         |
| 56  | CN2                       | 224A4407P0020 | 53254-0210<br>Connector-PCB -   | 1     |      |     | U<br>FCC ID: BDBF21002A |         |
| 57  |                           |               |                                 |       |      |     |                         |         |
| 58  | 2 J1, J2, J40             | TA-0.6        | SHORT WIRE                      | 3     |      |     | L=55mm<br>P=5.0         |         |
| 59  | J3, J4, J7-J12            | TA-0.6        | SHORT WIRE                      | 8     |      |     | L=55mm<br>P=7.5         |         |
| 60  | J13-J21, J23-J27, J29-J36 | TA-0.6        | SHORT WIRE                      | 22    |      |     | L=55mm<br>P=10.0        |         |
| 61  | J22                       | TA-0.6        | SHORT WIRE                      | 1     |      |     | L=55mm<br>P=12.5        |         |
| 62  |                           |               |                                 |       |      |     |                         |         |
| 63  |                           |               |                                 |       |      |     |                         |         |
| 64  |                           |               |                                 |       |      |     |                         |         |
| 65  |                           |               |                                 |       |      |     |                         |         |
| 66  |                           |               |                                 |       |      |     |                         |         |
| 67  |                           |               |                                 |       |      |     |                         |         |
| 68  |                           |               |                                 |       |      |     |                         |         |
| 69  |                           |               |                                 |       |      |     |                         |         |
| 70  |                           |               |                                 |       |      |     |                         |         |
| 71  |                           |               |                                 |       |      |     |                         |         |
| 72  |                           |               |                                 |       |      |     |                         |         |
| 73  |                           |               |                                 |       |      |     |                         |         |
| 74  |                           |               |                                 |       |      |     |                         |         |
| 75  |                           |               |                                 |       |      |     |                         |         |
| 76  |                           |               |                                 |       |      |     |                         |         |
| 77  |                           |               |                                 |       |      |     |                         |         |
| 78  |                           |               |                                 |       |      |     |                         |         |
| 79  |                           |               |                                 |       |      |     |                         |         |
| 80  |                           |               |                                 |       |      |     |                         |         |
| 81  |                           |               |                                 |       |      |     |                         |         |
| 82  |                           |               |                                 |       |      |     |                         |         |

|     |          |          |         |                          |     |                      |                |
|-----|----------|----------|---------|--------------------------|-----|----------------------|----------------|
|     |          | BT       | AA Size | Relation Drawing<br>code | 2YU | Ok! Data Corporation |                |
| Rev | Date     | DCO No.  |         | Design                   |     |                      | Name :         |
| 2   | 98.02.13 | SQ6-0116 |         | 坂本 範登                    |     |                      | PCB Assy. -P2H |
|     | .        |          |         | Check 小森 智裕              |     |                      | Parts List     |
|     | .        |          |         | Approval 内田              |     |                      | Drawing No.    |

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## 1.2. Circuit Diagram & Parts List

### 4) P6L Power Supply Board

(Sub High Voltage)

| Rev | NO.            | Part NO.        | Part Name                               | Q'ty. | Unit | Use | Notes               | Drawing |
|-----|----------------|-----------------|-----------------------------------------|-------|------|-----|---------------------|---------|
| 1   | 1              | 40386799        | PCB-P6L                                 | 1     |      |     | FCC ID: BDBF21002A  | 4PU     |
| 2   |                |                 |                                         |       |      |     |                     |         |
| 3   | D1, D8         | 6100003M0001    | EU02A/RL105F-F<br>D-Rectifying -Q       | 8     |      |     | 4KH-31051-102       |         |
| 4   | D2, D3, D9     | 610A0003M0002   | DHM3FJ60/ESJA58-06<br>D-Rectifying -    | 12    |      |     | 4KH-31051-127       |         |
| 5   | D4             | 6320229M0003    | ERZV05D391<br>SEMICO-Vari -             | 4     |      |     |                     |         |
| 6   | D5, D6, D7     | 6320003M0001    | ERZ/JVR-05N471<br>SEMICO-Vari -         | 12    |      |     |                     |         |
| 7   |                |                 |                                         |       |      |     |                     |         |
| 8   | R1, R4, R5, R6 | 3213420J0512    | RD16U/VTJ5.1Kohm<br>RES-Carbon flm-     | 16    |      |     |                     |         |
| 9   | R2             | 321A1421J0105   | RD1/4Y1MohmJ<br>RES-Carbon flm-         | 4     |      |     | 4KH-31051-127       |         |
| 10  | R3             | 3263103K0107    | MRH100MK/HV-38-100MK<br>RES-MET solid - | 4     |      |     | U                   |         |
| 11  |                |                 |                                         |       |      |     |                     |         |
| 12  | C1, C4         | 3064003J2103    | MY2A/CQMF-100V-103J<br>CAP-Plast flm -P | 8     |      |     |                     |         |
| 13  | C2, C3, C5     | 3024203K2471    | DE07/HCYB3F471<br>CAP-Ceramic -Z        | 12    |      |     |                     |         |
| 14  | C6             | 3041003J1100    | UVX/SME-63V-10uF 63V<br>CAP-Alum(CE) -P | 4     |      |     |                     |         |
| 15  |                |                 |                                         |       |      |     |                     |         |
| 16  | S1             | TA-0.6          | SHORT WIRE                              | 4     |      |     | L=32mm<br>P=10.16mm |         |
| 17  |                |                 |                                         |       |      |     |                     |         |
| 18  | Q1, Q2         | 602A1125M0039Y  | 2SC2235-Y<br>TR-NPN/H-FREQ -            | 8     |      |     |                     |         |
| 19  |                |                 |                                         |       |      |     |                     |         |
| 20  | T1, T2         | YB4049-7078P003 | HIGH VOLTAGE TRANSFO<br>RMER            | 8     |      |     |                     | 4YB     |
| 21  |                |                 |                                         |       |      |     |                     |         |
| 22  | CN1            | 2244101P0060    | 06FE-ST-VK-N<br>Connector-PCB -         | 4     |      |     | U                   |         |
| 23  | CN2            | 2247000P0001    | RT-01T-1.0B<br>Connector-PCB -          | 4     |      |     | U                   |         |
| 24  |                |                 |                                         |       |      |     |                     |         |
| 25  |                |                 |                                         |       |      |     |                     |         |
| 26  |                |                 |                                         |       |      |     |                     |         |
| 27  |                |                 |                                         |       |      |     |                     |         |
| 28  |                |                 |                                         |       |      |     |                     |         |

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Rev 1

|     |      |         |                          |                 |                          |  |
|-----|------|---------|--------------------------|-----------------|--------------------------|--|
|     |      | AA Size | Relation Drawing<br>code | 2YU             | Oki Data Corporation     |  |
| Rev | Date | DCO No. | Design                   | Design 坂本<br>範登 | Name :<br>PCB Assy. -P6L |  |
|     |      |         |                          | Check 小森<br>智裕  |                          |  |
|     |      |         |                          | Approval 内田     | Parts List               |  |
|     |      |         |                          |                 | Drawing No.              |  |

## 1.2. Circuit Diagram & Parts List

### 5) R51 Main Control Board

| Rev | NO.                                | Part NO.       | Part Name                             | Q'ty. | Unit | Use | Notes              | Drawing |
|-----|------------------------------------|----------------|---------------------------------------|-------|------|-----|--------------------|---------|
| 1   | 1                                  | 40590899       | PCB-R51                               | 1     |      |     |                    | 4PU     |
| 2   |                                    |                |                                       |       |      |     | FCC ID: BDBF21002A |         |
| 3   | D504-D506, D514                    | 611A0000N0001  | SS100MA80VACP<br>D-Signal -C          | 4     |      |     |                    |         |
| 4   | D510-D512                          | 611A0000N0002  | SS100MA80VKCP<br>D-Signal -C          | 3     |      |     |                    |         |
| 5   | D503, D507, D508, D509, D515       | 611A0000N0003  | SS100MA80VSCP<br>D-Signal -C          | 5     |      |     |                    |         |
| 6   | D502                               | 613A0233M0092C | RD4.3M-B3<br>D-Zener -C               | 1     |      |     |                    |         |
| 7   | D501, D513                         | 6110225N0001   | 1SS392(TE85R)<br>D-Signal -C          | 2     |      | U   |                    |         |
| 8   | R3                                 | 321A3420P0001  | RD1/4YU0ohm<br>RES-Carbon flm-        | 1     |      |     |                    |         |
| 9   | R557                               | 3235003F0102   | CR/RK73H/ERJ/MCRF102<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 10  | R535, R560                         | 3235003F0103   | CR/RK73H/ERJ/MCRF103<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 11  | R513, R522, R533, R543, R574, R644 | 3235003F0104   | CR/RK73H/ERJ/MCRF104<br>RES-MET RN -C | 6     |      | U   |                    |         |
| 12  | R517, R534, R558, R600             | 3235003F0122   | CR/RK73H/ERJ/MCRF122<br>RES-MET RN -C | 4     |      | U   |                    |         |
| 13  | R518, R585                         | 3235003F0123   | CR/RK73H/ERJ/MCRF123<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 14  | R602                               | 3235003F0163   | CR/RK73H/ERJ/MCRF163<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 15  | R521, R532                         | 3235003F0183   | CR/RK73H/ERJ/MCRF183<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 16  | R504, R597, R598                   | 3235003F0203   | CR/RK73H/ERJ/MCRF203<br>RES-MET RN -C | 3     |      | U   |                    |         |
| 17  | R544, R643                         | 3235003F0204   | CR/RK73H/ERJ/MCRF204<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 18  | R646, R647                         | 3235003F0241   | CR/RK73H/ERJ/MCRF241<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 19  | R501                               | 3235003F0273   | CR/RK73H/ERJ/MCRF273<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 20  | R586                               | 3235003F0302   | CR/RK73H/ERJ/MCRF302<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 21  | R661                               | 3235003F0362   | CR/RK73H/ERJ/MCRF362<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 22  | R583                               | 3235003F0472   | CR/RK73H/ERJ/MCRF472<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 23  | R584                               | 3235003F0512   | CR/RK73H/ERJ/MCRF512<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 24  | R512                               | 3235003F0513   | CR/RK73H/ERJ/MCRF513<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 25  | R599                               | 3235003F0623   | CR/RK73H/ERJ/MCRF623<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 26  | R645                               | 3235003F0821   | CR/RK73H/ERJ/MCRF821<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 27  | R502                               | 3235003F0912   | CR/RK73H/ERJ/MCRF912<br>RES-MET RN -C | 1     |      | U   |                    |         |

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Rev 4

|     |          | AA Size  | Relation Drawing code |  | 3YU         | Okidata Corporation |  |
|-----|----------|----------|-----------------------|--|-------------|---------------------|--|
| Rev | Date     | DCO No.  | Design                |  | Design      | Name :              |  |
| 2   | 97.12.04 | SR7-0108 | 遠藤 浩                  |  | 遠藤 浩        | PCB Assy. -R51      |  |
| 3   | 97.12.22 | SR7-0109 | 遠藤 浩                  |  | Check       | Parts List          |  |
| 4   | 98.01.14 | SR7-0110 | 遠藤 浩                  |  | Approval 花沢 | Drawing No.         |  |

| Rev | NO.                                                                                             | Part NO.     | Part Name                             | Q'ty. | Unit | Use | Notes              | Drawing |
|-----|-------------------------------------------------------------------------------------------------|--------------|---------------------------------------|-------|------|-----|--------------------|---------|
| 28  | R507, R508, R523, R524, R581, R582, R648, R662-R665                                             | 3235003J0100 | CR/RK73K/ERJ/MCRJ100<br>RES-MET RN -C | 11    |      | U   | FCC ID: BDBF21002A |         |
| 29  | R547, R570, R625                                                                                | 3235003J0101 | CR/RK73K/ERJ/MCRJ101<br>RES-MET RN -C | 3     |      | U   |                    |         |
| 30  | R65, R67, R509, R537, R624, R626, R635, R649                                                    | 3235003J0102 | CR/RK73K/ERJ/MCRJ102<br>RES-MET RN -C | 8     |      | U   |                    |         |
| 31  | R59, R64, R66, R68, R551-R554, R561, R562, R564, R568, R569, R571, R572, R576, R627, R628, R660 | 3235003J0103 | CR/RK73K/ERJ/MCRJ103<br>RES-MET RN -C | 19    |      | U   |                    |         |
| 32  | R530, R531                                                                                      | 3235003J0152 | CR/RK73K/ERJ/MCRJ152<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 33  | R514, R589, R650-R657                                                                           | 3235003J0220 | CR/RK73K/ERJ/MCRJ220<br>RES-MET RN -C | 10    |      | U   |                    |         |
| 34  | R62, R519, R520, R525-R529, R550, R594, R595, R638                                              | 3235003J0221 | CR/RK73K/ERJ/MCRJ221<br>RES-MET RN -C | 12    |      | U   |                    |         |
| 35  | R580, R618-R622, R641                                                                           | 3235003J0222 | CR/RK73K/ERJ/MCRJ222<br>RES-MET RN -C | 7     |      | U   |                    |         |
| 36  | R516                                                                                            | 3235003J0224 | CR/RK73K/ERJ/MCRJ224<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 37  | R60, R61, R63                                                                                   | 3235003J0301 | CR/RK73K/ERJ/MCRJ301<br>RES-MET RN -C | 3     |      | U   |                    |         |
| 38  | R515, R636                                                                                      | 3235003J0331 | CR/RK73K/ERJ/MCRJ331<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 39  | R610-R617, R623, R629, R630                                                                     | 3235003J0332 | CR/RK73H/ERJ/MCRJ332<br>RES-MET RN -C | 11    |      | U   |                    |         |
| 40  | R26, R27, R29-R33, R36, R70, R71, R590, R591, R658, R659                                        | 3235003J0470 | CR/RK73K/ERJ/MCRJ470<br>RES-MET RN -C | 14    |      | U   |                    |         |
| 41  | R542, R549, R578, R579, R587, R588                                                              | 3235003J0472 | CR/RK73K/ERJ/MCRJ472<br>RES-MET RN -C | 6     |      | U   |                    |         |
| 42  | R563, R575, R577, R592, R593, R637, R640                                                        | 3235003J0473 | CR/RK73K/ERJ/MCRJ473<br>RES-MET RN -C | 7     |      | U   |                    |         |
| 43  | R506, R510, R573                                                                                | 3235003J0474 | CR/RK73K/ERJ/MCRJ474<br>RES-MET RN -C | 3     |      | U   |                    |         |
| 44  | R503, R642                                                                                      | 3235003J0683 | CR/RK73K/ERJ/MCRJ683<br>RES-MET RN -C | 2     |      | U   |                    |         |
| 45  | R556                                                                                            | 3235003J0752 | CR/RK73K/ERJ/MCRJ752<br>RES-MET RN -C | 1     |      | U   |                    |         |
| 46  | R536, R596, R601                                                                                | 3235003J0822 | CR/RK73K/ERJ/MCRJ822<br>RES-MET RN -C | 3     |      | U   |                    |         |

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Rev 4

|     |          | AA Size  | Relation Drawing code | 3YU         | Oki Data Corporation     |  |  |  |
|-----|----------|----------|-----------------------|-------------|--------------------------|--|--|--|
| Rev | Date     | DCO No.  | Design                | Design      | Name :<br>PCB Assy. -R51 |  |  |  |
| 2   | 97.12.04 | SR7-0108 | 遠藤 浩                  | 遠藤 浩        |                          |  |  |  |
| 3   | 97.12.22 | SR7-0109 | 遠藤 浩                  | Check       | Parts List               |  |  |  |
| 4   | 98.01.14 | SR7-0110 | 遠藤 浩                  | Approval 花沢 |                          |  |  |  |
|     |          |          |                       |             | Drawing No.              |  |  |  |

| Rev                | NO.                                                                                                       | Part NO.      | Part Name                               | Q'ty. | Unit | Use | Notes         | Drawing |
|--------------------|-----------------------------------------------------------------------------------------------------------|---------------|-----------------------------------------|-------|------|-----|---------------|---------|
| 47                 | R1, R2                                                                                                    | 324A1001J0109 | MSF1/2B1ohmJ<br>RES-MET OX -            | 2     |      |     | 4KH-31051-152 |         |
| 48                 | R43, R44                                                                                                  | 324A1001J0209 | MSF1/2B2ohmJ<br>RES-MET OX -            | 2     |      |     | 4KH-31051-152 |         |
| 49                 | R72, R505, R511, R603, R604, R608                                                                         | 3255003P0001  | CR/RK73Z/ERJ/MCRJ-0V<br>RES-Zero ohm -C | 6     |      |     | U             |         |
| FCC ID: BDBF21002A |                                                                                                           |               |                                         |       |      |     |               |         |
| 50                 | RM1-RM4                                                                                                   | 334A5012J0680 | MNR14ABJ680<br>RES-Block -C             | 4     |      |     |               |         |
| 51                 |                                                                                                           |               |                                         |       |      |     |               |         |
| 52                 | C549                                                                                                      | 3033003C0101  | GRM/UMK/MCH/ 101CH<br>CAP-Ceramic -C    | 1     |      |     | U             |         |
| 53                 | C545, C607, C627                                                                                          | 3033003C0150  | GRM/UMK/MCH/ 150CH<br>CAP-Ceramic -C    | 3     |      |     | U             |         |
| 54                 | C559-C566, C572-C575, C577-C579, C599, C601-C603, C619                                                    | 3036003K0102  | GRM/UMK/MCH/ 102B<br>CAP-Ceramic -C     | 20    |      |     | U             |         |
| 55                 | C502-C504, C547, C550, C551, C568-C571, C610, C616                                                        | 3036003K0103  | GRM/UMK/MCH/ 103B<br>CAP-Ceramic -C     | 12    |      |     | U             |         |
| 56                 | C540-C542, C597, C598, C614                                                                               | 3036003K0332  | GRM/UMK/MCH/ 332B<br>CAP-Ceramic -C     | 6     |      |     | U             |         |
| 57                 | C38, C39, C505-C527, C529-C536, C538, C539, C543, C544, C552-C556, C581-C583, C585, C587-C589, C617, C621 | 3036003Z0104  | GRM/TMK/MCH/104Z 25V<br>CAP-Ceramic -C  | 51    |      |     | U             |         |
| 58                 | C605                                                                                                      | 303A3007C0120 | CC2012CH1H120J 50V<br>CAP-Ceramic -C    | 1     |      |     |               |         |
| 59                 | C546, C576, C596, C615                                                                                    | 303A3007C0391 | CC2012CH1H391J 50V<br>CAP-Ceramic -C    | 4     |      |     |               |         |
| 60                 | C604                                                                                                      | 303A3007C0470 | CC2012CH1H470J 50V<br>CAP-Ceramic -C    | 1     |      |     |               |         |
| 61                 | C594, C608                                                                                                | 303A3007K0330 | CC2012SL1H330J 50V<br>CAP-Ceramic -C    | 2     |      |     |               |         |
| 62                 | C611-C613                                                                                                 | 303A3007K0561 | CC2012SL1H561J 50V<br>CAP-Ceramic -C    | 3     |      |     |               |         |
| 63                 | C591                                                                                                      | 303A6008K3222 | CK2012B1H222K 50V<br>CAP-Ceramic -C     | 1     |      |     |               |         |
| 64                 | C590, C592, C593, C623                                                                                    | 303A6008Z1105 | CK2012F1C105Z 16V<br>CAP-Ceramic -C 1uF | 4     |      |     |               |         |
| 65                 | C620                                                                                                      | 303A6008Z1474 | CK2012F1C474Z 16V<br>CAP-Ceramic -C     | 1     |      |     |               |         |
| 66                 | C626                                                                                                      | 303A6008Z3104 | CK2012F1H104Z 50V<br>CAP-Ceramic -C     | 1     |      |     |               |         |
| 67                 | C28-C30, C624                                                                                             | 303A6008Z3223 | CK2012F1H223Z 50V<br>CAP-Ceramic -C     | 4     |      |     |               |         |

| AA Size |          | Relation Drawing code |        | 3YU         | Oki Data Corporation                                          |  |
|---------|----------|-----------------------|--------|-------------|---------------------------------------------------------------|--|
| Rev     | Date     | DCO No.               | Design | Design      | Name :<br>PCB Assy. -R51<br><br>Parts List<br><br>Drawing No. |  |
| 2       | 97.12.04 | SR7-0108              | 遠藤 浩   | 遠藤 浩        |                                                               |  |
| 3       | 97.12.22 | SR7-0109              | 遠藤 浩   | Check       |                                                               |  |
| 4       | 98.01.14 | SR7-0110              | 遠藤 浩   | Approval 花沢 |                                                               |  |

| Rev | NO.             | Part NO.      | Part Name                                 | Q'ty. | Unit | Use | Notes              | Drawing |
|-----|-----------------|---------------|-------------------------------------------|-------|------|-----|--------------------|---------|
| 68  | C31, C622, C625 | 303A6008Z3473 | CK2012F1H473Z 50V<br>CAP-Ceramic -C       | 3     |      |     | FCC ID: BDBF21002A |         |
| 69  | C4, C5, C16     | 3041103A1101  | UVX/SME10VB-100-0A<br>CAP-Alum(CE) -P     | 3     |      |     | U                  |         |
| 70  | C2, C3, C7, C9  | 3041103C1100  | UVX/SME16VB-10-0A<br>CAP-Alum(CE) -P      | 4     |      |     | U                  |         |
| 71  | C13             | 304A1046H1688 | 50MS5-0.68M 50V<br>CAP-Alum(CE) -         | 1     |      |     |                    |         |
| 72  | C1              | 304A1137A1332 | UVS1A332MHA 10V<br>CAP-Alum(CE) -         | 1     |      |     |                    |         |
| 73  | C8, C37         | 304A1180H1470 | KMG50VB-47M-FC 50V<br>CAP-Alum(CE) - 47uF | 2     |      |     |                    |         |
| 74  |                 |               |                                           |       |      |     |                    |         |
| 75  | IC20            | 700A0503N0007 | 74LS07FP<br>Digital IC-BIP-S              | 1     |      |     |                    |         |
| 76  | IC16            | 7024620N2001  | MB87A138PFV-G<br>Digital IC-MOS-F         | 1     |      |     | U                  |         |
| 77  | IC4             | 702A1703N0000 | 74HC00FP<br>Digital IC-MOS-S              | 1     |      |     |                    |         |
| 78  | IC17            | 702A1703N0004 | 74HC04FP<br>Digital IC-MOS-S              | 1     |      |     |                    |         |
| 79  | IC15            | 702A1703N0014 | 74HC14FP<br>Digital IC-MOS-S              | 1     |      |     |                    |         |
| 80  | IC10, IC14      | 702A1703N0126 | 74HC126FP<br>Digital IC-MOS-S             | 2     |      |     |                    |         |
| 81  | IC5             | 720A0028N0006 | NJM386M<br>Analog-BIPLIN -S               | 1     |      |     |                    |         |
| 82  | IC12            | 720A0028N0039 | NJM4558M<br>Analog-BIPLIN -S              | 1     |      |     |                    |         |
| 83  | IC13            | 720A0028N0113 | NJM318E<br>Analog-BIPLIN -S               | 1     |      |     |                    |         |
| 84  | IC18            | 720A0523N0011 | UPC393G2<br>Analog-BIPLIN -S              | 1     |      |     |                    |         |
| 85  | IC7, IC9        | 720A1816N0001 | MTD2005F<br>Analog-BIPLIN -S              | 2     |      |     |                    |         |
| 86  | IC1             | 720A4022N0008 | M51953AFP<br>Analog-BIPLIN -S             | 1     |      |     |                    |         |
| 87  | IC11            | 731A0525N0001 | TC4051BF<br>Analog-MOS SW -S              | 1     |      |     |                    |         |
| 88  | IC8             | 7320001N0002  | LC89210-F07<br>Analog-MOSdata-F           | 1     |      |     | U                  |         |
| 89  | IC6             | 7320040N0001  | SM6104S1<br>Analog-MOSdata-S              | 1     |      |     | U                  |         |
| 90  | RAM3            | 8020003N2604  | 514265JP-60<br>Memory-MOSDRAM-S           | 1     |      |     | U                  |         |
| 91  | RAM2            | 8020003N4613  | 5118160JP-60<br>Memory-MOSDRAM-S          | 1     |      |     | U                  |         |
| 92  | RAM1            | 804A0003N8302 | 62256LFP-7LL<br>Memory-MOSSRAM-S          | 1     |      |     |                    |         |
| 93  | FLS             | 8163621N0000  | MBM29F800TA-70PFTN<br>Memory-MOSEEPR-S    | 1     |      |     | U                  |         |
| 94  | IC2             | 8530433N0002  | HG72C706H02FD<br>CPU-MOS (ROM) -F         | 1     |      |     | U                  |         |
| 95  | IC3             | 855A0424F0034 | MSM6242RS<br>CPU-Interface -              | 1     |      |     |                    |         |

|         |          |                       |        |     |             |                            |  |
|---------|----------|-----------------------|--------|-----|-------------|----------------------------|--|
| AA Size |          | Relation Drawing code |        | 3YU |             | <b>Okidata Corporation</b> |  |
| Rev     | Date     | DCO No.               | Design |     | Design      | Name :                     |  |
| 2       | 97.12.04 | SR7-0108              | 遠藤 浩   |     | 遠藤 浩        | PCB Assy. -R51             |  |
| 3       | 97.12.22 | SR7-0109              | 遠藤 浩   |     | Check       |                            |  |
| 4       | 98.01.14 | SR7-0110              | 遠藤 浩   |     | Approval 花沢 | Parts List                 |  |
|         |          |                       |        |     |             | Drawing No.                |  |

| Rev | NO.                    | Part NO.       | Part Name                                | Q'ty. | Unit | Use | Notes              | Drawing |
|-----|------------------------|----------------|------------------------------------------|-------|------|-----|--------------------|---------|
| 96  | LC3, LC4               | 342A1013K0330  | MT-SL330KB<br>COMP PAR-LC -              | 2     |      |     |                    |         |
| 97  | LC1, LC2, LC5          | 342A1013N0223  | MT-Y223NB<br>COMP PAR-LC -               | 3     |      |     | FCC ID: BDBF21002A |         |
| 98  | TR509-TR512            | 600A1003N0003  | A1344/UN2111/DTA114K<br>TR-PNP/H FREQ -C | 4     |      |     |                    |         |
| 99  | TR501                  | 600A1025M0017Y | 2SA1162-Y<br>TR-PNP/H FREQ -C            | 1     |      |     |                    |         |
| 100 | TR507                  | 600A1032N0010  | 2SA1338<br>TR-PNP/H FREQ -C              | 1     |      |     |                    |         |
| 101 | TR26                   | 600A1125M0011Y | 2SA950-Y<br>TR-PNP/H FREQ -              | 1     |      |     | 4LH-31420.         |         |
| 102 | TR502, TR503,<br>TR513 | 602A1025M0033  | 2SC2712-Y/G<br>TR-NPN/H-FREQ -C          | 3     |      |     |                    |         |
| 103 | TR504, TR505,<br>TR508 | 602A1035N0004  | DTC124EK<br>TR-NPN/H-FREQ -C             | 3     |      |     |                    |         |
| 104 | TR506                  | 602A1035N0019  | DTC123YK<br>TR-NPN/H-FREQ -C             | 1     |      |     |                    |         |
| 105 | CN11                   | 2201001P0360   | 57RE-40360-830B-D29<br>Connector-SQR -   | 1     |      |     | U                  |         |
| 106 | CN7                    | 2244100P0120   | 12JQ-ST<br>Connector-PCB -               | 1     |      |     | U                  |         |
| 107 | CN8                    | 2244101P0060   | 06FE-ST-VK-N<br>Connector-PCB -          | 1     |      |     | U                  |         |
| 108 | CN2                    | 224A3357P0020  | 00-8263-0212-00-000<br>Connector-PCB -   | 1     |      |     | UM                 |         |
| 109 | CN1, CN13              | 224A3357P0040  | 00-8263-0412-00-000<br>Connector-PCB -   | 2     |      |     | UM                 |         |
| 110 | 4 CN5                  | 224A3531P0101  | S10B-PH-K-S<br>Connector-PCB -           | 1     |      |     |                    |         |
| 111 | CN3                    | 224A3531P0060  | S6B-PH-K-S<br>Connector-PCB -            | 1     |      |     |                    |         |
| 112 | CN4                    | 224A3531P0160  | S16B-PH-K-S<br>Connector-PCB -           | 1     |      |     |                    |         |
| 113 | CN9                    | 224A3535P0020  | B2B-EH<br>Connector-PCB -                | 1     |      |     | M                  |         |
| 114 | CN12                   | 224A3590P0140  | ZC-014<br>Connector-PCB -                | 1     |      |     | UM                 |         |
| 115 | CN6                    | 224A4134P0230  | 23FE-BT-VK-N<br>Connector-PCB -          | 1     |      |     | ?                  |         |
| 116 | CN10                   | 224A4325P0300  | 5-176135-4<br>Connector-PCB -            | 1     |      |     | M                  |         |
| 117 | X3                     | 3805001B0001   | MA-306-29.4912MHZ<br>OSC-Crystal -C      | 1     |      |     | UM                 |         |
| 118 | X2                     | 380A1201A0001  | P-3-32.768KHZ<br>OSC-Crystal -           | 1     |      |     | MW                 |         |
| 119 | X1                     | 380A1308B1005  | HC-49/U-S-20.000MHZ<br>OSC-Crystal -     | 1     |      |     |                    |         |
| 120 | BF501                  | 105A5010C1002  | BLM21A121S<br>Core- -C                   | 1     |      |     |                    |         |
| 121 | BAT1                   | 455A3027P0001  | CR2430-FT6<br>BATT-Primary -             | 1     |      |     | MW                 |         |
| 122 | F501-F503              | 5402200S0102   | 431001<br>FUSE -C                        | 3     |      |     | U                  |         |
| 123 | 2                      | LP-7134        |                                          | 1     |      |     | L=20mm             | 4       |

E32E

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Rev 4

|     |          | AA Size  | Relation Drawing<br>code | 3YU         | Oki Data Corporation |  |
|-----|----------|----------|--------------------------|-------------|----------------------|--|
| Rev | Date     | DCO No.  | Design                   | Design      | Name :               |  |
| 2   | 97.12.04 | SR7-0108 | 速藤 浩                     | 速藤 浩        | PCB Assy.-R51        |  |
| 3   | 97.12.22 | SR7-0109 | 速藤 浩                     | Check       | Parts List           |  |
| 4   | 98.01.14 | SR7-0110 | 速藤 浩                     | Approval 花沢 | Drawing No.          |  |

## 1.2. Circuit Diagram & Parts List

### 6) O4W Operation Board

| Symbol                      | OKI Part No.  | Description                     | Q'ty | Remarks         |
|-----------------------------|---------------|---------------------------------|------|-----------------|
|                             |               |                                 |      |                 |
| 1                           | 40071499      | PCB-04W                         | 1    |                 |
|                             |               |                                 |      |                 |
| D1-D8                       | 611A0003J0001 | 1S9953/1S2075K/1S2473 Signal DI | 16   | 4KH-31051-102   |
|                             |               |                                 |      |                 |
| L1                          | 650A0128M0030 | GL3HD8 LED                      | 2    | MW              |
| L2-L7,L9                    | 650A0228M0010 | GL3HY8 LED                      | 14   | MW              |
|                             |               |                                 |      |                 |
| R15                         | 321A1421J0100 | RD1/4Y10ΩJ RD Resistor          | 2    | 4KH-31051-127   |
| R22-R25                     | 321A1421J0101 | RD1/4Y100ΩJ RD Resistor         | 8    | 4KH-31051-127   |
| R1                          | 321A1421J0151 | RD1/4Y150ΩJ RD Resistor         | 2    | 4KH-31051-127   |
| R4-R9,R11                   | 321A1421J0221 | RD1/4Y220ΩJ RD Resistor         | 14   | 4KH-31051-127   |
| R2                          | 321A1421J0102 | RD1/4Y1kΩJ RD Resistor          | 2    | 4KH-31051-127   |
| R10                         | 321A1421J0472 | RD1/4Y4.7kΩJ RD Resistor        | 2    | 4KH-31051-127   |
| R12,R14,R19,<br>R20,R21,R26 | 321A1421J0103 | RD1/4Y10kΩJ RD Resistor         | 12   | 4KH-31051-127   |
| R13,R16,R17,<br>R18,R27     | 321A1421J0473 | RD1/4Y47kΩJ RD Resistor         | 10   | 4KH-31051-127   |
| R28                         | 321A1421J0474 | RD1/4Y470kΩJ RD Resistor        | 2    | 4KH-31051-127   |
|                             |               |                                 |      |                 |
| RM1                         | 334A3268J0103 | MRM-8-103JA Block Resistor      | 2    | 1/8             |
|                             |               |                                 |      |                 |
| C37,C39                     | 302A4011K3101 | DD104B101K50V<br>CK Capacitor   | 4    | 50V<br>100pF    |
| C5,C38                      | 302A4011K3221 | DD104B221K50V<br>CK Capacitor   | 4    | 50V<br>220pF    |
| C22,C23,C50                 | 303A4115M3471 | CK92C1H471MS<br>CK Capacitor    | 6    | 50V<br>470pF    |
| C33-C35                     | 303A4115M3102 | CK92C1H102MS<br>CK Capacitor    | 6    | 50V<br>0.001uF  |
| C36                         | 303A4115M3472 | CK92C1H472MS<br>CK Capacitor    | 2    | 50V<br>0.0047uF |
| C2,C3,C25,<br>C30,C31,C32   | 302A7009Z2104 | DD306-63F104Z25<br>CG Capacitor | 12   | 25V<br>0.1uF    |
| C4,C24                      | 303A4117Z3474 | CK92F1H474ZS<br>CK Capacitor    | 4    | 50V<br>0.47uF   |
| C40                         | 304A1046H1688 | 50MS5-0.68M<br>CE Capacitor     | 2    | 50V<br>0.68uF   |

Title: PCB Assy. -04W

DRW No. : 40071401BT - 1/2

| Symbol                 | OKI Part No.    | Description                                        | Q'ty | Remarks |
|------------------------|-----------------|----------------------------------------------------|------|---------|
| C1,C6,C16              | 304A1115E1470   | KME25VB-47 25V<br>CE Capacitor 47uF                | 6.   |         |
| IC1                    | 8530183M0005    | M38002M2-286SP<br>Micro-controller, MOS (with ROM) | 2    | U       |
| IC502                  | 720A4022N0008   | M51953AFP BIP Linear IC (SO)                       | 2    |         |
| IC503                  | 702A1703N0008   | 74HC08FP MOS Digital IC (SO)                       | 2    |         |
| IC504                  | 702A1703N0126   | 74HC126FP MOS Digital IC (SO)                      | 2    |         |
| IC505                  | 702A1703N0032   | 74HC32FP MOS Digital IC (SO)                       | 2    |         |
| CN1                    | 224A3531P0160   | S16B-PH-K-S PC Connector                           | 2    |         |
| SW1-SW23,<br>SW34-SW35 | 205A1139P1001   | SKHHAL Push-button switch                          | 68   | MW      |
| SW56-SW64              |                 |                                                    |      |         |
| OSC                    | 381A1048B0003   | CST6.00MGW121 Ceramic Oscillator                   | 2    |         |
| 3                      | 238A1079P0001   | SMRJ-B-7/0.16-7X115 Jumper                         | 4    | W       |
| 4                      | YB4134-1026P001 | LCD Driver Module Purchase Specification           | 2    | 4YB.    |
|                        |                 |                                                    |      |         |
|                        |                 |                                                    |      |         |
|                        |                 |                                                    |      |         |
|                        |                 |                                                    |      |         |
|                        |                 |                                                    |      |         |
|                        |                 |                                                    |      |         |

Title: PCB Assy. -04W

DRW No. : 40071401BT - 2/2