

## Bill of Materials

### Introduction.

The Bill of materials covers all versions of the T2000 series.

### T2000 Bill of Materials ( BOM )

All resistors 1% tolerance unless specified different.

| Assy              | Qty | Designator                      | Manuf P/N      | Description                                            |
|-------------------|-----|---------------------------------|----------------|--------------------------------------------------------|
| <b>RF Section</b> |     |                                 |                |                                                        |
|                   |     | <b>Receiver</b>                 |                |                                                        |
| Rx                | 1   | RIC2                            | AD8313ARM      | Logarithmic Detector, 2.5GHz 70dB                      |
| Rx                | 1   | RIC1                            | LP2951aCM      | Voltage Regulator, SO-8                                |
| Rx                | 2   | RIC3RIC4                        | AD8052ARM      | Op Amp                                                 |
| Rx                | 1   | RIC5                            | 74HC04UB       | Hex Inverting Buffers SO-8                             |
| Rx                | 1   | RTR1                            | HPFP0405       | LNA AGILENT                                            |
| Rx                | 6   | RC6,RC10,RC13,RC16<br>RC17,RC18 | 100N           | CAP, 100N SMD 50V X7R 10% 0805                         |
| Rx                | 2   | RC4 RC5                         | 1N             | CAP 1nF SMD 50V NPO 10% 0805                           |
| Rx                | 1   | RC3                             | 1P0            | CAP 1pF SMD 50V NPO 10% 0805                           |
| Rx                | 2   | RC1 RC8                         | 1p8            | CAP 1p8 SMD 50V NPO 10% 0805                           |
| Rx                | 2   | RC9 RC12                        | 3p3            | CAP 3p3 SMD 50V NPO 10% 0805                           |
| Rx                | 3   | RC2 RC11 RC14                   | 47p            | CAP 47pF SMD 50V NPO 10% 0805                          |
| Rx                | 2   | RC15 RC7                        | 10UF           | Tantalum, 10UF 10V, B size                             |
| Rx                | 1   | RL1                             | 470nH          | 470nH inductor 1206 case                               |
| Rx                | 3   | RL2 RL3 RL4                     | 8n2            | 8n2 inductor 0805 case                                 |
| Rx                | 5   | RR10 RR12 RR15 RR25<br>RR27     | 10R            | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 5   | RR1 RR2 RR4 RR24 RR26           | 47R            | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 1   | RR11                            | 470R           | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 1   | RR13                            | 1k5            | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 5   | RR6 RR7 RR9 RR14 RR17           | 1K             | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 4   | RR19 RR20 RR21 RR23             | 4K7            | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 4   | RR8 RR16 RR18 RR28              | 10K            | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 1   | RR3                             | 15K            | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 1   | RR5                             | 100K           | Resistor, 0805 125mW METAL 1% 0805                     |
| Rx                | 2   | RRV1,RRV2                       | 10k trimpot    | 10 k multurn trimpot Bournes 10k3224w                  |
|                   |     | <b>Transmitter</b>              |                |                                                        |
| Tx                | 1   | TIC1                            | MM74HC221AM    | Dual Monostable Multivibrator SO-16                    |
| Tx                | 2   | TTR2,TTR3                       | 1090MP         | 90 watt pulsed RF Transistor 1030 - 1090 Mhz, GHZ      |
| Tx                | 1   | TTR4                            | TPR175         | 175 watt pulsed RF Transistor 1030 - 1090 Mhz,GHZ      |
| Tx                | 1   | TTR1                            | NDS355AN       | MOSFET, N-ch, 30V 1.7A, SOT-23                         |
| Tx                | 1   | TD4                             | ZR2431F01/431I | Adjust Volt Reg Zetek ZR2431F01 or 431L                |
| Tx                | 1   | TD3                             | BAT54          | High Speed Diode SOT-23                                |
| Tx                | 1   | TD2                             | 33V            | 33V Zener BZX85C33 1.3W, DO-41                         |
| Tx                | 1   | TD1,                            | 27V            | 27V Zener BZX85C27 1.3W, DO-41                         |
| Tx                | 1   | TC27 (CT1)                      | A1J8           | Capacitor, Variable, 0.5-8p, Air Diel Voltronics       |
| Tx                | 1   | TC36 (CT2)                      | GIGATRIM       | Capacitor, Variable, .3-1.2p , Air Dielectric Johansen |
| Tx                | 2   | TC5 TC3                         | 47uF           | Electrolytic capacitor, 47u 63V, -40 to + 105          |

|                              |    |                                  |                |                                                                 |
|------------------------------|----|----------------------------------|----------------|-----------------------------------------------------------------|
| Tx                           | 1  | TC37                             | 4u7            | CAP 4.7Uf SMD 16V TANT 10% CASE B –40 to +105                   |
| Tx                           | 1  | TC35                             | 100u           | CAP 100Uf SMD 16V TANT 10% 2816 –40 to +105                     |
| Tx                           | 5  | TC2,TC18,TC26,TC34,TC44          | 100n           | CAP, 100N SMD 63V X7R 10% 0805                                  |
| Tx                           | 5  | TC1,TC13,TC21,TC30,TC38          | 10n            | CAP 10nF SMD 63V NPO 10% 0805                                   |
| Tx                           | 4  | TC14,TC24,TC29,TC42              | 1n             | CAP 1nF SMD 63V NPO 10% 0805                                    |
| Tx                           | 1  | TC23                             | 3p9            | CAP 3p9 SMD 50V NPO 10% 0805                                    |
| Tx                           | 1  | TC28                             | 4p7            | CAP 4p7 SMD ATC HIGH VOLTAGE 0805/1206                          |
| Tx                           | 4  | TC11,TC15,TC17,TC25              | 5p6            | CAP 5p6 SMD 50V NPO 10% 0805                                    |
| Tx                           | 2  | TC12,TC19                        | 6p8            | CAP 6p8 SMD 50V NPO 10% 0805                                    |
| Tx                           | 2  | TC10,TC20                        | 8p2            | CAP 8p2 SMD 50V NPO 10% 0805                                    |
| Tx                           | 2  | TC8,TC9                          | 10p            | CAP 10p SMD 50V NPO 10% 0805                                    |
| Tx                           | 1  | TC33                             | 47p            | CAP 47p SMD 50V NPO 10% 0805                                    |
| Tx                           | 3  | TC22,TC31,TC43                   | 100p           | CAP 100p SMD 50V NPO 10% 0805                                   |
| Tx                           | 1  | TR11                             | 2R7            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 2  | TR1,TR14                         | 10R            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR4,TR7                          | 18R            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR15                             | 180R           | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 4  | TR3,TR5,TR6,TR8                  | 270R           | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR18                             | 1K2            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR10                             | 1K5            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 2  | TR17,TR19                        | 2K2            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR12                             | 3K9            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 2  | TR9,TR13                         | 4K7            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR21                             | 10K            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR20                             | 22K            | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | TR2                              | 100K           | Resistor, 0805 125mW METAL 1% 0805                              |
| Tx                           | 1  | MVR1                             | 10K            | 10 K MULTITURN BOURNES                                          |
| Tx                           | 7  | TL1,TL2,TL3,TL4,TL5,TL6,TL7      | 1T             | Inductor, 1 TURN                                                |
| Tx                           | 1  | Resonator                        | Resonator      | Coaxial resonator 1090 Mhz P/N T2000RN001                       |
| Tx                           | 1  | TTH1                             | 220R           | Thermistor, 0805                                                |
|                              | 1  | MBNC                             |                | Connector, BNC(f)                                               |
|                              | 1  | MSK1                             | DB25           | 25 pin right angle PCB, EMC filtered, male,gold contacts        |
| <b>Main Micro controller</b> |    |                                  |                |                                                                 |
| Micromain                    | 1  | MIC1                             | PIC17C756/16/I | Microprocessor TQFP package OTP                                 |
| Micromain                    | 1  | MIC3                             | MAX485         | RS485 driver chip TX/RX ( Not installed ,for future use )       |
| Micromain                    | 1  | MIC4                             | DS1232 LP      | Reset Microprocessor , alternate part MAX1232 ESA Or ADM1232ARN |
| Micromain                    | 1  | MIC6                             | AD7822BRU      | 8 bit,32MSPS CMOS A to D Converter                              |
| Micromain                    | 1  | MIC2                             | 24LC02         | 2k serial eeprom                                                |
| Micromain                    | 1  | MIC5                             | LM2594M-5.0    | 5 Volt Switching Regulator So-8 Industrial temp                 |
| Micromain                    | 1  | MTR1                             | RFD10P03L      | MOSFET,P-ch,50V 15A T0-251                                      |
| Micromain                    | 2  | MTR2,MTR4                        | FDV304P        | Harris P channel digital fet                                    |
| Micromain                    | 12 | MD1 - 12                         | SMI4007        | 1 Amp rectifier / 1000PIV SMD diode                             |
| Micromain                    | 1  | MTR3                             | BC848          | BC847 transistor SOT-23                                         |
| Micromain                    | 1  | MZD1                             | 10BQ040        | 1 AMP POWER SCHOTTKY POWER DIODE                                |
| Micromain                    | 1  | MC22                             | 100uf          | Electrolytic Low ESR 25 VW 5-2                                  |
| Micromain                    | 11 | MC2 MC5 MC10 MC13 MC14 MC15 MC16 | 0.1uf          | CAP, 100N SMD 50V X7R 10% 0805                                  |

|                     |    |                                                                                     |              |                                                         |
|---------------------|----|-------------------------------------------------------------------------------------|--------------|---------------------------------------------------------|
|                     |    | MC17 MC19 MC20 MC23                                                                 |              |                                                         |
| Micromain           | 12 | MC6 MC7 MC8 MC21<br>MC25 MC26 MC27 MC28<br>MC30 MC31 MC32 MC33                      | 0.01uf       | CAP, 10N SMD 50V X7R 10% 0805                           |
| Micromain           | 1  | MC11                                                                                | 0.001uf      | CAP, 1N SMD 50V X7R 10% 0805                            |
| Micromain           | 1  | MC18                                                                                | .47uf        | CAP, 470N SMD 50V X7R 10% 0805                          |
| Micromain           | 1  | MC1                                                                                 | 10uf         | Tantalum, 10uf, 10V, B size                             |
| Micromain           | 1  | MC3                                                                                 | 47uf         | Electrolytic Low ESR 35 VW 5-2                          |
| Micromain           | 2  | Link                                                                                | 0 ohm        | Resistor, 1206 125mW METAL 1% 0805                      |
| Micromain           | 5  | Link                                                                                | 0 ohm        | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 3  | MR28 MR30 MR40                                                                      | 10R          | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 12 | MR1 MR2 MR3 MR9 MR10<br>MR13 MR15 MR16 MR17<br>MR18 MR19 MR43                       | 100 OR 120R  | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 2  | MR26 MR27                                                                           | 1k           | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 4  | MR21 MR22 MR31 MR32                                                                 | 10k          | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 16 | MR5 MR41 MR36 MR33<br>MR4 MR6 MR14 MR38<br>MR37 MR35 MR20 MR34<br>MR8 MR7 MR11 MR12 | 22K          | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 1  | MVR1                                                                                | 200 k        | Variable resistor 200k Bournes 200k3224W                |
| Micromain           | 2  | MR25 MR29                                                                           | 47k          | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 1  | MR39                                                                                | 100k         | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 1  | MR24                                                                                | 680k         | Resistor, 0805 125mW METAL 1% 0805                      |
| Micromain           | 15 | MFB1 – MFB15                                                                        | 1uH          | Ferrite inductors 0805 SMD                              |
| Micromain           | 1  | MFB13                                                                               | Ferrite Bead | Ferrite Bead                                            |
| Micromain           | 1  | MFL1                                                                                | 100uH        | Simid 05 series 100Uh inductor , SMD                    |
| Micromain           | 1  | MX1                                                                                 | 32Mhz        | TCXO HyQ QXO-8GAA-32                                    |
| Micromain           | 1  | MD13                                                                                | 1N5822       | 3 Amp Schottky Rectifier                                |
| Micromain           | 1  | MSK2                                                                                | 8 pin PCB    | 8 pin PCB 2mm pitch Harwin connector                    |
| <b>Power supply</b> |    |                                                                                     |              |                                                         |
| PWRSUPP             | 1  | PC12                                                                                | 10n          | CAP, 10N SMD 50V X7R 10% 0805                           |
| PWRSUPP             | 5  | PC1,PC3,PC6,PC10,PC11                                                               | 100n         | CAP, 100N SMD 50V X7R 10% 0805                          |
| PWRSUPP             | 1  | PC7                                                                                 | 22P          | CAP 22pF SMD 50V NPO 10% 0805                           |
| PWRSUPP             | 1  | PC5                                                                                 | 100p         | CAP 100pF SMD 50V NPO 10% 0805                          |
| PWRSUPP             | 1  | PC4                                                                                 | 330p         | CAP 330pF SMD 50V X7R 10% 0805                          |
| PWRSUPP             | 1  | PC8                                                                                 | 680P         | CAP 680pF SMD 50V NPO 10% 0805                          |
| PWRSUPP             | 1  | PC9                                                                                 | 1u           | 1uF MLC Cap 50V                                         |
| PWRSUPP             | 1  | PC14                                                                                | 4u7 16V Tant | CAP 4u7 SMD 16V TANT 10% CASE A                         |
| PWRSUPP             | 1  | PC13                                                                                | 100u 16V     | CAP 100uF SMD 16V TANT 10% CASE A                       |
| PWRSUPP             | 1  | PC14                                                                                | 100u 63V     | ZL Series - Ultra Low Impedance Capacitor - High Ripple |
| PWRSUPP             | 1  | PC2                                                                                 | 220u 50V     | 220uf Electrolytic , high temp range                    |
| PWRSUPP             | 1  | PR11                                                                                | 0R15         | RES 0R15 SMD 125mW METAL 1% 0805                        |
| PWRSUPP             | 1  | PR12                                                                                | 1R47         | RES 1R47 SMD 125mW METAL 1% 0805                        |
| PWRSUPP             | 1  | PR10                                                                                | 100R         | RES, 100R SMD 125mW METAL 1% 0805                       |
| PWRSUPP             | 1  | PR15                                                                                | 2K2          | RES 2K2 SMD 125mW METAL 1% 0805                         |
| PWRSUPP             | 2  | PR1,PR6                                                                             | 4K7          | RES 4K7 SMD 125mW METAL 1% 0805                         |
| PWRSUPP             | 5  | PR2,PR3,PR7,PR8,PR9                                                                 | 10K          | RES 10K SMD 125mW METAL 1% 0805                         |
| PWRSUPP             | 1  | PR13                                                                                | 12K          | RES, 12K SMD 125mW METAL 1% 0805                        |
| PWRSUPP             | 1  | PR4                                                                                 | 15K          | RES 15K SMD 125mW METAL 1% 0805                         |
| PWRSUPP             | 1  | PR5                                                                                 | 56K          | RES, 56K SMD 125mW METAL 1% 0805                        |
| PWRSUPP             | 1  | PR14                                                                                | 82K          | RES, 82K SMD 125mW METAL 1% 0805                        |
| PWRSUPP             | 1  | PD1                                                                                 | SMCJ33A      | 1500W Transient Protection Diode                        |
| PWRSUPP             | 2  | PD4 PD5                                                                             | 10BQ100      | 1A POWER SCHOTTKY DIODE SMD                             |

|         |   |           |                  |                                                 |
|---------|---|-----------|------------------|-------------------------------------------------|
| PWRSUPP | 1 | PD2       | BAS16            | DUAL DIODE SOT23                                |
| PWRSUPP | 2 | PTR1 PTR2 | BC848            | General Purpose NPN Transistor SMD SOT 23       |
| PWRSUPP | 1 | PTR3      | MTP10N10EL       | N-Channel Enhancement-mode power mosfet TO-220V |
| PWRSUPP | 1 | PIC1      | LTC1624IS8       | LTC1624 N-CHANNEL SWITCHING REGULATOR CON       |
| PWRSUPP | 1 | PIC2      | LM2578A          | LM2578A SWITCHING REGULATOR CONTROLLER          |
| PWRSUPP | 1 | PSW1      | Polyswitch .75   | Polyswitch .75 A P/N SMD075                     |
| PWRSUPP | 1 | PL1       | IPT-17-732/ 47uH | Iron Powder Toroid - 14.8x6.35                  |
| PWRSUPP | 1 | PL2       | 1000uH           | TOKO 1000uH Inductor RB                         |
| PWRSUPP | 1 | PSK1      | 4 pin PCB        | 2mm 4 pin harwin                                |

|      |   |                              |               |                                                     |
|------|---|------------------------------|---------------|-----------------------------------------------------|
| Case | 2 |                              | Lids          | 1mm aluminium sheet 133.5 x 61mm                    |
| Case | 1 |                              | Main Chassis  | Milled Aluminium Chassis 61 x 61 x 160mm PN-062AD01 |
| Case | 1 |                              | DB25 plate    | Milled Aluminium end plate 61 x 21 x 4mm PN-062AD04 |
| Case | 1 |                              | Filter        | Milled bandpass filter PN - 062AD05                 |
| Case | 1 |                              | RX Shield     | Milled Receiver shield ( brass )                    |
| Case | 6 | FB1, FB2, FB3, FB4, FB5, FB6 | Ferrite beads | Ferrite beads 3.5 x 5.0mm, 2mm hole                 |
| Case | 1 | Harness                      | 8 pin Harness | Fabricated 8 pin to RX,TX,Display harness.          |

**Display / Detachable Display / second remote head LCD Version ( SFL)**

|        |    |                                                             |                |                                                                                                        |
|--------|----|-------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------------------------|
| LCDPCB | 7  | DC5 DC6 DC8 DC9 DC13                                        | .1u            | 0603 capacitor SMD 50v 7XLR 10 %                                                                       |
|        |    | DC16                                                        |                |                                                                                                        |
| LCDPCB | 1  | DC11                                                        | .0015u         | 0805 capacitor SMD 50v 7XLR 10%                                                                        |
| LCDPCB | 4  | DR7 DR8 DR11 DR12                                           | 10k            | Resistor, 0805 125mW METAL 1% 0805                                                                     |
| LCDPCB | 1  | DVR1                                                        | 10k pot        | SMD potentiometer 3224W-1-103E                                                                         |
| LCDPCB | 13 | DR13 DR14 DR15 DR16 DR17 DR18 DR19 DR20 DR26 DR27 DR29 DR32 | 22k            | Resistor, 0805 125mW METAL 1% 0805                                                                     |
| LCDPCB | 1  | DR25                                                        | 47R            | Resistor, 0805 125mW METAL 1% 0805                                                                     |
| LCDPCB | 1  | DR24                                                        | 100R           | Resistor, 0805 125mW METAL 1% 0805                                                                     |
| LCDPCB | 1  | DR6                                                         | 120R           | Resistor, 0805 125mW METAL 1% 0805                                                                     |
| LCDPCB | 1  | DRL2                                                        | 47R            | Axial resistor 10%                                                                                     |
| LCDPCB | 1  | LCD                                                         | LCD Display    | 2line x 8 character AC082AYILY-H LCD alphanumeric dis                                                  |
| LCDPCB | 1  | DXTAL2                                                      | 8.00mhz        | Ceramic Resonator Murata CST-8.00MGA                                                                   |
| LCDPCB | 1  | DIC10                                                       | DS1232 LP      | Econ reset Microcontroller monitor , ALSO MAX1232ESA Or ADM1232ARN ( all pin and function compatable ) |
| LCDPCB | 1  | DIC7                                                        | 24LC02         | 2k serial eeprom SOIP package                                                                          |
| LCDPCB | 1  | DIC6                                                        | PIC17C756-16/I | Microcontroller TQFP package                                                                           |
| LCDPCB | 1  | DIC5                                                        | Max485         | 485 driver chip S08 Package ( NOT INSTALLED )                                                          |
| LCDPCB | 1  | DIC9                                                        | MC14490DW      | Hex Contact Bounce Eliminator SOIC package                                                             |
| LCDPCB | 10 | DLED1 - DLED10                                              | Green LED      | HSMG-H630 Diffused Flip mount SMD                                                                      |
| LCDPCB | 4  | DTR1 DTR3 DTR4 DTR5                                         | FDV-304P       | SOT 23 package P channel fet                                                                           |
| LCDPCB | 1  | DSK6A                                                       | 7x7 way        | 2.5mm PCB 7x7 row header 10mm pins                                                                     |
| LCDPCB | 1  | DSK6                                                        | 7x7 way        | 2.5 mm PCB 7 x 7 mm header socket                                                                      |
| LCDPCB | 1  | DSK4                                                        | 10 pin SIP     | SIP 10 way socket                                                                                      |
| LCDPCB | 1  | DSK7                                                        | 10 pin SIP     | Sip 10 way 10mm pins                                                                                   |
| LCDPCB | 6  | DSW3 - DSW8                                                 | Tactile        | 95B04A26AR Tactile P/B SMD switch                                                                      |
| LCDPCB | 1  | DSW9                                                        | Rotary Sw      | M series 13mm 12 position MC00L1NCQD                                                                   |
| LCDPCB | 1  | DSW10                                                       | Encoder        | Single shaft with push button ALPS RK0972211-10KBKA                                                    |
| LCDPCB | 1  | KEYPAD                                                      | Keypad         | Silicon Rubber membrane 6 cavity                                                                       |
| LCDPCB | 1  | DSK5                                                        | 6 Pin PCB      | 2mm 6 way PCB connector                                                                                |
| LDCASE | 1  |                                                             | Chassis        | Milled Aluminium Face61 x 61 x 6mm PN-MA760108                                                         |
| LDCASE | 1  |                                                             | Mode Knob      |                                                                                                        |

LCD CASE 1 Select Knob

**Display / Detachable Display / second remote head LED version ( SF )**

|         |    |                       |               |                                                                  |
|---------|----|-----------------------|---------------|------------------------------------------------------------------|
| LEDPCB  | 7  | DC1 DC2 DC3 DC4 DC5   | .1u           | 0603 capacitor SMD 50v 7XLR 10 %                                 |
|         |    | DC6 DC7               |               |                                                                  |
| LEDPCB  | 1  | DC9                   | .0015u        | 0805 capacitor SMD 50v 7XLR 10%                                  |
| LEDPCB  | 6  | DR5 DR7 DR8 DR10 DR11 | 10k           | Resistor, 0805 125mW METAL 1% 0805                               |
|         |    | DR12                  |               |                                                                  |
| LEDPCB  | 9  | DR1 DR2 DR3 DR4 DR9   | 22k           | Resistor, 0805 125mW METAL 1% 0805                               |
|         |    | DR33 DR34 DR35 DR36   |               |                                                                  |
| LEDPCB  | 1  | DR6                   | 120R          | Resistor, 0805 125mW METAL 1% 1206                               |
| LEDPCB  | 1  | DRL1                  | 150R          | Axial resistor 10%                                               |
| LEDPCB  | 2  | DISPLAY1 , 2          | LED Display   | 2line x 8 character HCMS-2975H LED alphanumeric display          |
| LEDPCB  | 1  | DXTAL1                | 8.00mhz       | Ceramic Resonator CST-8.00MGA                                    |
| LEDPCB  | 1  | DIC4                  | DS1232 LP     | Econ reset Microcontroller monitor,Also MAX1232ESA Or ADM1232ARN |
| LEDPCB  | 1  | DIC2                  | 24LC02        | 2k serial eeprom SOIP package                                    |
| LEDPCB  | 1  | DIC1                  | PIC17C756-16I | Microcontroller TQFP package                                     |
| LEDPCB  | 1  | DIC5                  | Max485        | 485 driver chip S08 Package ( NOT INSTALLED )                    |
| LEDPCB  | 1  | DIC3                  | MC14490DW     | Hex Contact Bounce Eliminator SOIC package                       |
| LEDPCB  | 10 | DLED1 - DLED10        | Green LED     | HSMG-H630 Diffused Flip mount SMD                                |
| LEDPCB  | 1  | DTR1                  | FDV-304P      | SOT 23 package P channel fet                                     |
| LEDPCB  | 1  | DSK2A                 | 7x7 way       | 2.5mm PCB 7x7 row header 10mm pins                               |
| LEDPCB  | 1  | DSK2                  | 7x7 way       | 2.5 mm PCB 7 x 7 mm header socket                                |
| LEDPCB  | 1  | DSK1                  | 10 pin SIP    | SIP 10 way socket                                                |
| LEDPCB  | 1  | DSK7                  | 10 pin SIP    | Sip 10 way 10mm pins                                             |
| LEDPCB  | 6  | DSW3 - DSW8           | Tactile       | 95B04A26AR Tactile P/B SMD switch                                |
| LEDPCB  | 1  | DSW1                  | Rotary Sw     | M series 13mm 12 position MC00L1NCQD                             |
| LEDPCB  | 1  | DSW2                  | Encoder       | Single shaft with push button                                    |
| LEDPCB  | 1  | KEYPAD                | Keypad        | Silicon Rubber membrane 6 cavity                                 |
| LEDPCB  | 1  | FILTERLED             | Filter        | 43 x 24 x 1mm neutral grey LED filter                            |
| LEDPCB  | 1  | DSK3                  | 6 Pin PCB     | 2mm 6 way PCB connector                                          |
| LEDCASE | 1  |                       | Chassis       | Milled Aluminium Face 61 x 61 x 6mm PN-MA760109                  |
| LEDCASE | 1  |                       | Mode Knob     |                                                                  |
| LEDCASE | 11 |                       | Select knob   |                                                                  |

**Remote Head option , control box and blanking plate ( NOT IN PRODUCTION – FUTURE PRODUCT )**

|         |    |              |              |                                                                   |
|---------|----|--------------|--------------|-------------------------------------------------------------------|
| REMOTE  | 1  | RREG1        | 7805         | 7805 TO-220 case                                                  |
| REMOTE  | 1  | RC1          | 47uf / 35v   | Electrolytic Capacitor                                            |
| REMOTE  | 1  | RC2          | 100uf / 16 v | Electrolytic Capacitor                                            |
| REMOTE  | 2  | RC3 RC4      | .01          | Ceramic Capacitor                                                 |
| REMOTE  | 1  | RSK1         | DB-09 M      | DB-09 chassis mount male with solder tails and mounting           |
| REMOTE  | 1  | RSK2         | 6 pin        | 6 Pin harwin socket 2mm with pins                                 |
| REMCASE | 1  |              | Chassis      | Milled Aluminium Remote case housing 61 x 61 x 31mm PN-MA760102   |
| REMCASE | 1  |              | Blank Plate  | Milled Aluminium Remote blank off plate 61 x 61 x 5mm PN-MA760103 |
| MISCH   | 44 |              | M2.5 x 3     | Philips head countersunk stainless steel screws                   |
| MISCH   | 2  |              | M2.5 x 30    | Philips head countersunk stainless steel screws                   |
| MISCH   | 14 |              | M2.5 x 4.5   | Pan Slot cheesehead stainless steel screws                        |
| MISCH   | 4  |              | M2.5 x 19    | Pan Slot cheesehead stainless steel screws                        |
| MISCH   | 20 |              | M2.5         | Sprung washers                                                    |
| PCB     | 1  | T2000MB001R1 | 4 layer PCB  | Main micro PCB 4 layer                                            |
| PCB     | 2  | T2000PS001R1 | 2 layer      | Power supply 3 ounce copper                                       |

|        |   |               |             |                                                       |
|--------|---|---------------|-------------|-------------------------------------------------------|
| PCB    | 1 | T2000DBLEDR1  | 4 layer PCB | LED display control head                              |
| PCB    | 1 | T2000DBLCDR1  | 4 layer PCB | LCD display control head                              |
| PCB    | 1 | LEDDISPLAY    | 4 layer PCB | LED carrier board                                     |
| PCB    | 1 | T2000TX001R1  | 2 Layer PCB | 1 layer teflon transmit PCB                           |
| PCB    | 1 | T2000RX001R1  | 1 Layer PCB | 1 layer teflon receive board                          |
| PCB    | 1 | T200SW01V1    | 4 layer PCB | Keyswitch Board 4 layer                               |
| Filter | 1 | Bandpass      | filter      | Aluminium Filter fingers silver plated as per drawing |
| Filter | 5 | Teflon        | Inserts     | Teflon inserts (as per engineering drawing )          |
| Filter | 5 | Tuning Screws | Screws      | Tuning screws and securing nuts as per drawing        |

## Notes