

## PT8200-02 PARTS LIST

| NO. | Description   | Ref.No  |
|-----|---|---|
| 1   | PCB /PT8200PCB  |   |
| 2   | IC / 24LC256I/SN  | U402  |
| 3   | IC / RA55H4047M   | U201  |
| 4   | IC / PST9140NR  | U305  |
| 5   | IC / TDA1519C, SIL9   | U11   |
| 6   | IC / TA31136FN, SSOP  | U102  |
| 7   | IC / TA75W01FU  | U202  |
| 8   | IC / AK2346   | U404  |
| 9   | PLL IC / MB15E03SL, PLL, 16-PIN, SSOP                         | U101  |
| 10  | IC / TC75W51FU, SSOP8-P-0.65                                  | U403, U501, U503, U601, U801                        |
| 11  | IC / XC62FP3502PR, SOT-89                                     | U304  |
| 12  | DTMF IC / HT9172, SOP   | U803  |
| 13  | CPU / M16C-M3062LFGPGP, FLASH, 100P6Q-A                       | U401  |
| 14  | IC / NJM78L05UA   | U1, U301, U303                                      |
| 15  | IC / TA7808S, TO-220  | U302  |
| 16  | DIODE / 02DZ18(X.Y)   | D839  |
| 17  | DIODE / MA77, 0805  | DD2   |
| 18  | DIODE / DA221 (ROHM)  | D23   |
| 19  | DIODE / MA742 (PANASONIC)                                     | D18, D34, D36, D65, D66, D68, D501                  |
| 20  | DIODE / 1SS355B   | D27, D58, D518, D558                                |
| 21  | DIODE / 1SV278  | D14   |
| 22  | DIODE / MA4PH633  | D30   |
| 23  | DIODE / 0603, MA2S111 (PANASONIC)                             | D6  |
| 24  | DIODE / MA4P1250-1072T  | D31, D32  |
| 25  | DIODE / DAN222, (ROHM)  | D13, D15  |
| 26  | DIODE / DAN235E   | D19   |
| 27  | DIODE / 0603, HVC355B (HITACHI)                               | D2, D8  |
| 28  | DIODE / HVC376B   | D1, D3, D4, D5, D9, D10, D12, D17, D101, D111, D121 |
| 29  | DIODE / HZU5ALL (HITACHI)                                     | D7, D921  |
| 30  | DIODE / HZU5CLL   | DD1   |
| 31  | DIODE / DSM3MA1   | D838  |
| 32  | DIGITAL TRANSISTOR / DTA123JE (ROHM)                          | Q85   |
| 33  | DIGITAL TRANSISTOR / DTA144EE (ROHM)                          | Q70   |
| 34  | DIGITAL TRANSISTOR / DTC114EE (ROHM)                          | Q482  |
| 35  | DIGITAL TRANSISTOR / DTC144EE (ROHM)                          | Q402, Q403, Q423, Q472, Q682                        |
| 36  | DIGITAL TRANSISTOR / KRC102S                                  | Q29, Q30, Q34, Q605                                 |
| 37  | DIGITAL TRANSISTOR / KRC404RTK                                | Q38   |
| 38  | DIGITAL TRANSISTOR / 2SA1641 (S. T)                           | Q42   |
| 39  | DIGITAL TRANSISTOR / 2SA1745 (6, 7)                           | Q31   |
| 40  | DIGITAL TRANSISTOR / 2SA1774 (Q R)                            | Q94   |
| 41  | DIGITAL TRANSISTOR / 2SA1832 (G R)                            | Q4  |
| 42  | DIGITAL TRANSISTOR / 2SC2412K                                 | Q78   |
| 43  | DIGITAL TRANSISTOR / 2SC3357                                  | Q23, Q25  |
| 44  | DIGITAL TRANSISTOR / 2SC4116-GR                               | Q501, Q531  |
| 45  | DIGITAL TRANSISTOR / 2SC4617 (S) (ROHM)                       | Q14, Q87, Q88, Q89                                  |
| 46  | DIGITAL TRANSISTOR /<br>2SC4738 (GR), AF, AMPLIFIER (TOSHIBA) | Q5  |
| 47  | DIGITAL TRANSISTOR / 2SC5108Y (TOSHIBA)                       | Q3, Q6, Q15, Q19, Q20                               |

## PT618A主机电子BOM

文件号:RD-CL-2000-QJ-B

版本:B

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| 48 | DIGITAL TRANSISTOR / KTA1664(Y)               | Q33  |
| 49 | FET / 2SJ243                                  | Q7, Q12  |
| 50 | FET / 2SK508NV(K52)                           | Q10, Q11   |
| 51 | FET / 3SK318                                  | Q1, Q21  |
| 52 | FET / 2SK1824                                 | Q50, Q51, Q52, Q53, Q550, Q552, Q711, Q752   |
| 53 | OMRON, G5V-1                                  | K101, K102   |
| 54 | CERAMIC FILTER / LTM450FW, 450kHz $\pm$ 7kHz  | CF1  |
| 55 | CERAMIC FILTER / LTM450GW, 450kHz $\pm$ 5kHz  | CF2  |
| 56 | CRYSTAL FILTER / 49.95MHz $\pm$ 7.5KHz, U-5*2 | XF1, XF2   |
| 57 | CHIP R / 0402, 1M $\pm$ 5%                    | R2, R7, R8, R24, R25, R26, R27, R258   |
| 58 | CHIP R / 0603, 0R $\pm$ 5%                    | R5, R16, R32, R33, R35, R44, R277, R316, R346, R347, R348, R352, R353, R354, R355, R358, R367, R413, R505, R559, R563  |
| 59 | CHIP R / 0603, 10R $\pm$ 5%                   | R15, R186, R288  |
| 60 | CHIP R / 0603, 100R $\pm$ 5%                  | R88, R99, R107, R133, R150, R159, R160, R236, R239, R289, R502, R616   |
| 61 | CHIP R / 0603, 1K $\pm$ 5%                    | R4, R29, R43, R46, R51, R235, R275, R281, R290, R371, R384, R385, R386, R387, R388, R389, R412, R627, R663, R664, R667, R681, R682, R683, R684, R685, R686, R687, R688, R689, R808, R809, R814, R815, R827, R853, R867, R970, R971, R984, R988, R989 |
| 62 | CHIP R / 0603, 10K $\pm$ 5%                   | R10, R11, R13, R30, R31, R34, R39, R60, R101, R106, R199, R243, R251, R293, R315, R392, R414, R418, R419, R576, R700, R727, R743, R767, R768, R812, R816, R877   |
| 63 | CHIP R / 0603, 100K $\pm$ 5%                  | R20, R238, R244, R503, R504, R506, R509, R510, R511, R657, R810, R811, R852  |
| 64 | CHIP R / 0603, 1M $\pm$ 5%                    | R525, R526, R527, R561   |
| 65 | CHIP R / 0603, 120R $\pm$ 5%                  | R174   |
| 66 | CHIP R / 0603, 1.2K $\pm$ 5%                  | R103   |
| 67 | CHIP R / 0603, 12K $\pm$ 5%                   | R539, R562, R699   |
| 68 | CHIP R / 0603, 120K $\pm$ 5%                  | R72, R479, R480, R481, R628  |
| 69 | CHIP R / 0603, 150R $\pm$ 5%                  | R19  |
| 70 | CHIP R / 0603, 1.5K $\pm$ 5%                  | R12, R56, R201, R252, R467   |
| 71 | CHIP R / 0603, 15K $\pm$ 5%                   | R45, R47, R48, R249, R307, R308, R606  |
| 72 | CHIP R / 0603, 150K $\pm$ 5%                  | R108, R241, R508, R645, R879   |
| 73 | CHIP R / 0603, 180R $\pm$ 5%                  | R14, R22   |
| 74 | CHIP R / 0603, 18K $\pm$ 5%                   | R488, R540, R541, R542, R543   |
| 75 | CHIP R / 0603, 180K $\pm$ 5%                  | R282, R530, R531, R533   |
| 76 | CHIP R / 0603, 200K $\pm$ 5%                  | R319, R320   |
| 77 | CHIP R / 0603, 22R $\pm$ 5%                   | R18  |
| 78 | CHIP R / 0603, 220R $\pm$ 5%                  | R98, R153, R317  |
| 79 | CHIP R / 0603, 2.2K $\pm$ 5%                  | R185, R197, R318, R626   |
| 80 | CHIP R / 0603, 22K $\pm$ 5%                   | R37, R73, R74, R77, R78, R291, R292, R297, R301, R302, R304, R305, R309, R600, R698, R843  |
| 81 | CHIP R / 0603, 220K $\pm$ 5%                  | R40, R149, R545  |
| 82 | CHIP R / 0603, 24K $\pm$ 1%                   | R551, R552   |
| 83 | CHIP R / 0603, 2.7K $\pm$ 5%                  | R17, R55, R67, R87, R314, R507   |
| 84 | CHIP R / 0603, 27K $\pm$ 5%                   | R41, R553, R554, R555, R712  |
| 85 | CHIP R / 0603, 270K $\pm$ 5%                  | R21, R560  |

## PT618A主机电子BOM

文件号:RD-CL-2000-QJ-B

版本:B

|     |                                      |  |
|-----|--------------------------------------|--|
| 86  | CHIP R / 0603, 30K±5%                | R216   |
| 87  | CHIP R / 0603, 33R±5%                | R9   |
| 88  | CHIP R / 0603, 330R±5%               | R163   |
| 89  | CHIP R / 0603, 3.3K±5%               | R130   |
| 90  | CHIP R / 0603, 33K±5%                | R268, R326, R449, R450, R676   |
| 91  | CHIP R / 0603, 330K±5%               | R146, R247, R266   |
| 92  | CHIP R / 0603, 3.9K±5%               | R321   |
| 93  | CHIP R / 0603, 39K±5%                | R452, R478   |
| 94  | CHIP R / 0603, 390K±5%               | R537, R538   |
| 95  | CHIP R / 0603, 47R±5%                | R203   |
| 96  | CHIP R / 0603, 470R±5%               | R36, R132, R154, R448  |
| 97  | CHIP R / 0603, 4.7K±5%               | R3, R94, R102, R124, R172, R175, R181, R211, R242, R265, R322, R325, R331, R332, R333, R420, R666, R728, R729, R803, R858  |
| 98  | CHIP R / 0603, 47K±5%                | R61, R70, R111, R147, R164, R246, R248, R254, R255, R373, R374, R376, R416, R417, R435, R711, R826   |
| 99  | CHIP R / 0603, 470K±5%               | R476, R477   |
| 100 | CHIP R / 0603, 51K±5%                | R544   |
| 101 | CHIP R / 0603, 560R±5%               | R391   |
| 102 | CHIP R / 0603, 5.6K±5%               | R38, R393, R394, R395  |
| 103 | CHIP R / 0603, 56K±5%                | R218, R516, R517   |
| 104 | CHIP R / 0603, 5.6R±5%               | R224   |
| 105 | CHIP R / 0603, 62K±5%                | R250, R263, R267, R482   |
| 106 | CHIP R / 0603, 6.8K±5%               | R362, R397, R532, R813   |
| 107 | CHIP R / 0603, 68K±5%                | R383, R453   |
| 108 | CHIP R / 0603, 680K±1%               | R536, R546, R564   |
| 109 | CHIP R / 0603, 820R±5%               | R221, R233   |
| 110 | CHIP R / 0603, 82K±5%                | R23, R217, R306, R382, R534  |
| 111 | CHIP R / 0603, 91K±5%                | R483   |
| 112 | CHIP R / 0805, 10R±5%                | R205   |
| 113 | CHIP R / 2010, 150R±5%               | R257   |
| 114 | CHIP R / 2010, 22R±5%                | R28  |
| 115 | CHIP R / 2010, 470R±5%               | R262   |
| 116 | 10D220                               | DD3  |
| 117 | 433003, 3A/32V, 1206                 | F841   |
| 118 | CHIP C / 0603, 10P±5%, 50V, COG      | C14, C30, C31, C75, C150, C229   |
| 119 | CHIP C / 0603, 100P±5%, 50V, COG     | C63, C98, C237, C330, C331, C332   |
| 120 | CHIP C / 0603, 1000P±10%, 50V, X7R   | C107   |
| 121 | CHIP C / 0603, 0.01uF±10%, 50V, X7R  | C33, C242, C576, C577, C618, C638, C881, C882, C925  |
| 122 | CHIP C / 0603, 0.1uF±10%, 50V, X7R   | C1, C17, C26, C28, C34, C37, C71, C80, C88, C119, C127, C135, C155, C165, C208, C256, C269, C275, C286, C314, C329, C333, C356, C387, C402, C403, C405, C411, C412, C413, C414, C415, C416, C417, C418, C558, C593, C626, C807, C811, C812, C888, C895 |
| 123 | CHIP C / 0603, 1uF±10%, 50V, X7R     | C218, C311, C317, C393, C406, C533, C536, C539, C541, C542, C543, C544, C545, C546, C547, C549, C705, C860   |
| 124 | CHIP C / 0603, 120P±5%, 50V, COG     | C620   |
| 125 | CHIP C / 0603, 0.012uF±10%, 50V, X7R | C623   |

## PT618A主机电子BOM

文件号:RD-CL-2000-QJ-B

版本:B

|     |  |  |
|-----|--|--|
| 126 | CHIP C / 0603, 150P±5%, 50V, COG         | C606   |
| 127 | CHIP C / 0603, 0.015uF±10%, 50V, X7R     | C556   |
| 128 | CHIP C / 0603, 18P±5%, 50V, COG          | C78, C141  |
| 129 | CHIP C / 0603, 1800P±10%, 50V, X7R       | C116   |
| 130 | CHIP C / 0603, 0.018uF±10%, 25V, X7R     | C557   |
| 131 | CHIP C / 0603, 1P±0.25P, 50V, COG        | C12, C24, C44, C52, C300   |
| 132 | CHIP C / 0603, 1.5P±0.25P, 50V, COG      | C45, C85   |
| 133 | CHIP C / 0603, 20P±5%, 50V, COG          | C408, C809, C810   |
| 134 | CHIP C / 0603, 22P±5%, 50V, COG          | C25, C91, C93, C106, C407  |
| 135 | CHIP C / 0603, 2200P±10%, 50V, X7R       | C500, C922   |
| 136 | CHIP C / 0603, 0.022uF±10%, 50V, X7R     | C142, C147, C427, C430, C559   |
| 137 | CHIP C / 0603, 0.22uF+80%--20%, 16V, Y5V | C575, C602, C622   |
| 138 | CHIP C / 0603, 27P±5%, 50V, COG          | C114, C492, C493   |
| 139 | CHIP C / 0603, 270P±10%, 50V, X7R        | C81  |
| 140 | CHIP C / 0603, 0.027uF±10%, 16V, X7R     | C21  |
| 141 | CHIP C / 0603, 2P±0.25P, 50V, COG        | C38, C40, C76, C86, C292, C313   |
| 142 | CHIP C / 0603, 33P±5%, 50V, COG          | C138, C483, C506, C685   |
| 143 | CHIP C / 0603, 0.033uF±10%, 16V, X7R     | C432, C433, C434, C501, C595, C596, C597, C615, C781   |
| 144 | CHIP C / 0603, 0.33uF±10%, 50V, X7R      | C160   |
| 145 | CHIP C / 0603, 3900P±10%, 50V, X7R       | C15  |
| 146 | CHIP C / 0603, 3P±0.25P, 50V, COG        | C13, C97, C100, C118   |
| 147 | CHIP C / 0603, 47P±5%, 50V, COG          | C74, C90, C92, C96, C563, C565   |
| 148 | CHIP C / 0603, 470P±10%, 50V, X7R        | C2, C3, C4, C5, C6, C7, C8, C9, C10, C16, C18, C19, C23, C42, C48, C49, C50, C55, C58, C59, C64, C69, C82, C83, C84, C94, C101, C102, C108, C109, C111, C112, C120, C128, C136, C143, C146, C154, C157, C159, C168, C169, C174, C176, C179, C184, C187, C188, C194, C198, C201, C204, C209, C210, C211, C217, C222, C228, C230, C232, C252, C264, C279, C290, C295, C298, C299, C303, C308, C309, C310, C318, C320, C324, C328, C335, C339, C369, C371, C372, C373, C380, C381, C382, C383, C404, C431, C505, C515, C537, C560, C584, C621, C630, C632, C650, C652, C662, C672, C677, C707, C708, C709, C710, C711, C712, C713, C714, C715, C716, C717, C718, C719, C735, C766, C771, C837, C848, C850, C871, C927 |
| 149 | CHIP C / 0603, 4700P±10%, 50V, X7R       | C552, C555   |
| 150 | CHIP C / 0603, 0.047uF±10%, 16V, X7R     | C858   |
| 151 | CHIP C / 0603, 0.47uF+80%--20%, 16V, Y5V | C608   |
| 152 | CHIP C / 0603, 4P±0.25P, 50V, COG        | C11, C189  |
| 153 | CHIP C / 0603, 56P±5%, 50V, COG          | C87  |
| 154 | CHIP C / 0603, 560P±10%, 50V, X7R        | C538, C598, C599   |
| 155 | CHIP C / 0603, 5600P±10%, 50V, X7R       | C619   |
| 156 | CHIP C / 0603, 5P±0.25P, 50V, COG        | C41, C43, C95, C99, C435   |
| 157 | CHIP C / 0603, 68P±5%, 50V, COG          | C89  |
| 158 | CHIP C / 0603, 0.068uF±10%, 16V, X7R     | C921, C924   |
| 159 | CHIP C / 0603, 6P±0.5P, 50V, COG         | C216   |
| 160 | CHIP C / 0603, 7P±0.5P, 50V, COG         | C20, C22, C46, C47, C57  |
| 161 | CHIP C / 0603, 82P±5%, 50V, COG          | C564   |
| 162 | CHIP C / 0603, 8P±0.5P, 50V, COG         | C32, C66, C73, C115, C156, C163  |

## PT618A主机电子BOM

文件号:RD-CL-2000-QJ-B

版本:B

|     |   |   |
|-----|---|---|
| 163 | CHIP C / 0603, 0.5P±0.1P, 50V, COG                          | C104, C105, C291, C312, C53, C77            |
| 164 | CHIP-TAN / TP#, SIZE P, 1uF±20%, 10V                        | C603, C604                                  |
| 165 | CHIP-TAN / TP#, SIZE P, 1.5uF±20%, 10V                      | C504, C634                                  |
| 166 | CHIP-TAN / TP#, SIZE P, 4.7uF±20%, 10V                      | C561, C609, C610, C611                      |
| 167 | CHIP-TAN / TS#, SIZE A, 0.1uF±20%, 35V                      | C56, C65                                    |
| 168 | CHIP-TAN / TS#, SIZE A, 1uF±20%, 16V                        | C254, C514                                  |
| 169 | CHIP-TAN / TS#, SIZE A, 10uF±20%, 6.3V                      | C27, C35, C67, C123, C267, C590, C607, C836 |
| 170 | CHIP-TAN / TS#, SIZE A, 10uF±20%, 16V                       | C388, C503                                  |
| 171 | CHIP-TAN / TS#, SIZE A, 15uF±20%, 6.3V                      | C103  |
| 172 | CHIP-TAN / TS#, SIZE A, 4.7uF±20%, 10V                      | C60   |
| 173 | CHIP C / 1206, 1000P±10%, 1000V, COG                        | C289, C605, C689                            |
| 174 | CHIP C / 1206, 1P±5%, 1000V, COG                            | C338, C352, C399                            |
| 175 | CHIP C / 1206, 2P±5%, 1000V, COG                            | C61, C62                                    |
| 176 | CHIP C / 1206, 4P±5%, 1000V, COG                            | C397, C523                                  |
| 177 | CHIP C / 1206, 0.5P±5%, 1000V, COG                          | C325  |
| 178 | CHIP-TAN / TS型, SIZE C, 22uF±20%, 10V                       | C223, C262, C268, C550                      |
| 179 | Φ10*16, 470UF25V, ±20%                                      | C288  |
| 180 | Φ6.3*6, 47U16V, ±20%  | C246, C624                                  |
| 181 | SERAMIC TRIMMER CAP / TZV2Z100A110, 3~10p+100               | TC1, TC2                                    |
| 182 | SERAMIC TRIMMER CAP / TZV2Z060A110, 2.5~6p+10-%, Np0±300ppm | TC4, TC6                                    |
| 183 | SMALL FIXED INDUCTOR / C1608CB-18NJ, 18nH ±5%, 0603         | L34, L35                                    |
| 184 | SMALL FIXED INDUCTOR / MLF1608R33K, 330nH ±10%, 0603        | L12, L14                                    |
| 185 | SMALL FIXED INDUCTOR / C1608CB-56NJ, 56nH ±5%, 0603         | L29, L36                                    |
| 186 | SMALL FIXED INDUCTOR / C1608CB-68NJ, 68nH ±5%, 0603         | L32   |
| 187 | SMALL FIXED INDUCTOR / MLG1608B15NJT, 15nH ±5%, 0603        | L24, L37, L38                               |
| 188 | SMALL FIXED INDUCTOR / MLG1608B22NJT, 22nH ±5%, 0603        | L21   |
| 189 | SMALL FIXED INDUCTOR / LGHK1608R22J-T, 220nH±5%, 0603       | L5, L6, L8, L10                             |
| 190 | SMALL FIXED INDUCTOR / MLF1608A3R3K, 3.3uH ±5%, 0603        | L13, L15, L19, L20                          |
| 191 | SMALL FIXED INDUCTOR / C2012C-18NJ, 18nH±5%, 0805           | L11   |
| 192 | SMALL FIXED INDUCTOR / C2012C-33NJ, 33nH±5%, 0805           | L9  |
| 193 | SMALL FIXED INDUCTOR / C2520C-10NJ, 10nH±5%, 1008           | L33   |
| 194 | SMALL FIXED INDUCTOR / FSLM2520-100J, 10uH ±5%, 1008        | L2  |
| 195 | SMALL FIXED INDUCTOR / C2520CB-12NJ, 12nH ±5%, 1008         | L31   |
| 196 | SMALL FIXED INDUCTOR / FSLM2520-R33K, 330nH±10%, 1008       | L17   |
| 197 | SMALL FIXED INDUCTOR / FSLM2520-R56K, 560nH±10%, 1008       | L27   |

## PT618A主机电子BOM

文件号:RD-CL-2000-QJ-B

版本:B

|     |   |   |
|-----|---|---|
| 198 | SMALL FIXED INDUCTOR / FSLM2520-R82K, 820nH±10%, 1008 | L26   |
| 199 | AIR-CORE COIL / 0.4*1.5*3T                            | L1, L23, L25, L28, L30                          |
| 200 | AIR-CORE COIL / 0.9*3.0*11TR                          | L40   |
| 201 | AIR-CORE COIL / 0.9*3.0*1.5TR                         | L58   |
| 202 | AIR-CORE COIL / 0.9*3.0*2.5TR                         | L42, L44, L56                                   |
| 203 | AIR-CORE COIL / 0.5*3.0*9.5TR                         | L45   |
| 204 | EMI, FILTER, SMT, BLM11A221S, 0603                    | L89, L90, L91, L92, L93, L94, L95               |
| 205 | EMI, FILTER, SMT, BLM21P300S, 0805                    | L39, L47  |
| 206 | EMI, FILTER, SMT, BLM41P600SPT, 1206                  | L54, L55  |
| 207 | EMI, FILTER, SMT, BLM11A601S, 0603                    | L3, L4, L7, L16, L18, L43, L46, L70, L112, L333 |
| 208 | WEI-D-005, 450kHz, (7.0*5.0)mm                        | L22   |
| 209 | NTH5G16P42B104K07TH, 100K, 0603                       | TH5, TH14, TH18                                 |
| 210 | NTH5G16P39B332J, 3.3K±5%, 0603                        | TH3   |
| 211 | TVCGDCSANF, 16.8MHz±2.5PPm                            | X1  |
| 212 | ZTACC3.58MG   | X802  |
| 213 | 3.6864MHz   | X6  |
| 214 | 9.8304MHZ-NX5032GA                                    | X401  |
| 215 | 1020042008, 4PIN                                      | CN102   |
| 216 | 08 6210 034 340 800, 34PIN, P=0.5mm                   | CN401   |
| 217 | 10PIN, P1.25-10PIN                                    | CN903   |
| 218 | SP/MIC 3.5mm  | PA OUT  |
| 219 | 2PIN / WCPW20-02                                      | CN101, CN601                                    |
| 220 | 15PIN   | CN402   |