

| NO. | Description | Ref.No |
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| 1 | PT8000PCB / PT8000V, PCB | IC18 |
| 2 | MCU / R8C/2A, R5F212A8SNFP, PLQP-64, ROHS | IC1 |
| 3 | IC / UPB1509GV | IC12 |
| 4 | Power module / RA30H1317M | IC7 |
| 5 | IC / PST9140NR | IC6 |
| 6 | IC / TDA1519C, SIL9 | IC15 |
| 7 | IC / TA31136FN, SSOP | IC3 |
| 8 | IC / AT24C08BN-SH | IC2 |
| 9 | PLL IC / MB15E03SL, PLL, 16-PIN, SSOP | IC5 |
| 10 | IC / XC62FP3502PR, SOT-89 | IC16 |
| 11 | DTMF IC / HT9172, SOP | IC8, IC9, IC13 |
| 12 | IC / L7808CV | IC4 |
| 13 | IC / NJM2902V, OP-AMP | IC17 |
| 14 | IC / NJM2904V, OP-AMP | D13 |
| 15 | IC / NJM78L05UA | D9, D10, D25 |
| 16 | Chip diode / DA221 (ROHM) | D32 |
| 17 | Chip diode / MA742 (PANASONIC) | D8 |
| 18 | Chip diode / 1SS372 (TOSHIBA) | D3, D11, D36 |
| 19 | Chip diode / 1SV278 | D12, D15, D22 |
| 20 | Chip diode / L709CER | D20, D21, D33 |
| 21 | Chip diode / 0603, MA2S111 (PANASONIC) | D2, D19 |
| 22 | Chip diode / DAN222, (ROHM) | D1, D4, D5, D6, D14, D16, D17, D18, D27, D28, D29, D30 |
| 23 | Chip diode / HSC277 (HITACHI) | D7 |
| 24 | Chip diode / HVC376B | D34 |
| 25 | Chip diode / HZU5ALL (HITACHI) | Q15, Q23, Q29, Q35, Q36 |
| 26 | Chip diode / DSM3MA1 | Q9, Q10, Q17, Q22, Q24, Q25, Q28, Q37, Q42, Q43, Q44, Q47 |
| 27 | Chip capacitor / DTA144EE (ROHM) | Q39 |
| 28 | Chip capacitor / DTC144EE (ROHM) | Q4, Q5 |
| 29 | Chip capacitor / FMMT171TA | Q3, Q13 |
| 30 | Chip capacitor / 2SC3357 | Q14, Q21, Q26, Q31 |
| 31 | Chip capacitor / 2SC4116-GR | Q32 |
| 32 | Chip capacitor / 2SC4617(R) (ROHM) | Q1, Q2, Q7, Q11, Q20 |
| 33 | Chip capacitor / 2SC4919, MUTING, CIRCUIT (SANYO) | Q38, Q40 |
| 34 | Chip capacitor / 2SC5108Y (TOSHIBA) | Q6, Q12 |
| 35 | Chip capacitor / KTA1298 (Y) | Q18, Q19 |
| 36 | FET / 2SK508NV (K52) | Q30, Q33, Q34, Q45, Q46 |
| 37 | FET / 3SK318 | Q16 |
| 38 | FET / 2SK1824 | CD1 |
| 39 | FET / 2SK1829 | CF2 |
| 40 | 450kHz Phase Frequency Detector / JTBM450CX24 | CF1 |
| 41 | Plug-in porcelain filter / LTM450FW, 450kHz ± 7kHz | XF1, XF2 |
| 42 | Plug-in porcelain filter / LTM450HT, 450kHz ± 3kHz | C134, C135, C289, R66, R72, R84, R85, R86, R145, R149, R172, R186, R196, R197, R222, R223, R229, R238, R242, R248, R252, R257, R268, R282, R300 |
| 43 | Plug-in IF filter / 49.95MHz ± 7.5KHz, U-5*2 | R2, R3, R71, R82, R219 |
| 44 | CHIP R / 0402, 0R ± 5% | R21, R26, R101, R121, R247 |
| 45 | CHIP R / 0402, 10R ± 5% | R9, R48, R70, R78, R83, R104, R136, R188, R201, R206, R231, R235, R254, R266, R270, R292, R297 |
| 46 | CHIP R / 0402, 100R ± 5% | R10, R12, R13, R15, R20, R24, R35, R62, R65, R68, R74, R79, R81, R112, R174, R210, R228, R233, R237, R280, R283, R284, R285, R286, R287, R298 |
| 47 | CHIP R / 0402, 1K ± 5% | R40, R52, R53, R60, R67, R80, R199, R208, R225, R236, R239, R269 |
| 48 | CHIP R / 0402, 10K ± 5% | R130, R131, R133, R137, R139, R147, R192, R277 |
| 49 | CHIP R / 0402, 100K ± 5% | R61 |
| 50 | CHIP R / 0402, 1M ± 5% | R152, R267 |
| 51 | CHIP R / 0402, 120R ± 5% | R16, R245 |
| 52 | CHIP R / 0402, 1.2K ± 5% | R150, R175 |
| 53 | CHIP R / 0402, 12K ± 5% | R63, R111 |
| 54 | CHIP R / 0402, 120K ± 5% | R49, R50, R56, R88, R155, R162, R272 |
| 55 | CHIP R / 0402, 150R ± 5% | R6, R11, R27, R140, R216 |
| 56 | CHIP R / 0402, 15K ± 5% | R198, R207, R217, R259 |
| 57 | CHIP R / 0402, 150K ± 5% | R92, R93, R117, R169, R170, R177, R221 |
| 58 | CHIP R / 0402, 18K ± 5% | R69 |
| 59 | CHIP R / 0402, 180K ± 1% | R37, R103 |
| 60 | CHIP R / 0402, 200K ± 5% | R1 |
| 61 | CHIP R / 0402, 22R ± 5% | R106, R109, R110, R153, R171, R194, R215 |
| 62 | CHIP R / 0402, 2.2K ± 5% | R183, R213 |
| 63 | CHIP R / 0402, 22K ± 5% | R57, R148 |
| 64 | CHIP R / 0402, 220K ± 5% | R59, R118, R205 |
| 65 | CHIP R / 0402, 2.7K ± 5% | R42, R164 |
| 66 | CHIP R / 0402, 27K ± 5% | R14, R43 |
| 67 | CHIP R / 0402, 270K ± 5% | R124, R142, R146, R159, R173 |
| 68 | CHIP R / 0402, 330R ± 5% | R151, R156, R157, R161, R185, R249 |

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| 69 | CHIP R / 0402, 3.3K±5% | R73, R108, R134, R230 |
| 70 | CHIP R / 0402, 33K±5% | R299 |
| 71 | CHIP R / 0402, 330K±5% | R98 |
| 72 | CHIP R / 0402, 360R±5% | R279 |
| 73 | CHIP R / 0402, 36K±5% | R64, R143, R278 |
| 74 | CHIP R / 0402, 3.9K±5% | R202, R220 |
| 75 | CHIP R / 0402, 39K±5% | R163 |
| 76 | CHIP R / 0402, 390K±5% | R33 |
| 77 | CHIP R / 0402, 43K±5% | R100, R271 |
| 78 | CHIP R / 0402, 47R±5% | R5, R39, R91, R179, R187, R191, R195, R288, R289, R290 |
| 79 | CHIP R / 0402, 470R±5% | R75, R89, R105, R123, R126, R127, R129, R141, R160, R293, R294 |
| 80 | CHIP R / 0402, 4.7K±5% | R96, R165, R204 |
| 81 | CHIP R / 0402, 47K±5% | R115, R135 |
| 82 | CHIP R / 0402, 470K±5% | R51, R54, R55 |
| 83 | CHIP R / 0402, 56R±5% | R178, R184, R193, R212, R241, R260 |
| 84 | CHIP R / 0402, 560R±5% | R97, R125, R232, R258, R263, R275 |
| 85 | CHIP R / 0402, 5.6K±5% | R99, R243 |
| 86 | CHIP R / 0402, 56K±5% | R94, R95, R113, R114, R244 |
| 87 | CHIP R / 0402, 560K±5% | R264, R274 |
| 88 | CHIP R / 0402, 6.8K±5% | R209 |
| 89 | CHIP R / 0402, 68K±5% | R76, R77, R255 |
| 90 | CHIP R / 0402, 680K±5% | R224 |
| 91 | CHIP R / 0402, 820R±5% | R190 |
| 92 | CHIP R / 0402, 82K±5% | C31, C176, D23, L52, L62 |
| 93 | CHIP R / 0402, 91K±5% | R8 |
| 94 | CHIP R / 0603, 0R±5% | R45 |
| 95 | CHIP R / 0603, 10R±5% | R4 |
| 96 | CHIP R / 0603, 10K±5% | R41 |
| 97 | CHIP R / 0603, 150R±5% | R30 |
| 98 | CHIP R / 0603, 1.5K±1% | L8, R18, R19 |
| 99 | CHIP R / 0603, 22R±5% | R44 |
| 100 | CHIP R / 0603, 2.2K±5% | R36 |
| 101 | CHIP R / 0603, 270R±5% | R32 |
| 102 | CHIP R / 0603, 270K±5% | R29, R34 |
| 103 | CHIP R / 0603, 3.3K±5% | R22, R23 |
| 104 | CHIP R / 0603, 47R±5% | R58 |
| 105 | CHIP R / 0603, 560R±5% | L54 |
| 106 | CHIP R / 0603, 680R±5% | L30 |
| 107 | CHIP R / 0805, 0R±5% | L31 |
| 108 | CHIP R / 0805, 22R±5% | R46, R47 |
| 109 | CHIP R / 0805, 47R±5% | VR2 |
| 110 | CHIP R / 1206, 220R±5% | VR1 |
| 111 | Chip trimming resistor / MVR22HXBRN473, 47K±25%, B Linear | R281 |
| 112 | Chip trimming resistor / MVR22HXBRN683, 68K±25%, B Linear | F1 |
| 113 | Plug-in voltage-dependent resistor / 10D220 | C7, C16, C80, C138, C139, C163, C307 |
| 114 | Chip Fuse / 433003, 3A/32V, 1206 | C27, C28, C97, C103, C105, C108, C112, C114, C125, C349, C350, C351, C352, C353, C354, C356, C359, C360, C361, C362, C363 |
| 115 | CHIP C / 0402, 10P±0.5P, 50V, COG | C19, C21, C36, C37, C49, C57, C58, C59, C68, C82, C87, C89, C90, C91, C92, C95, C98, C99, C167, C170, C171, C188, C189, C195, C196, C206, C212, C214, C220, C221, C223, C231, C266, C311, C321, C370, C371, C372, C373, C375 |
| 116 | CHIP C / 0402, 100P±5%, 50V, COG | C33, C51, C55, C81, C110, C115, C121, C133, C145, C153, C191, C242, C256, C284, C297, C330, C333 |
| 117 | CHIP C / 0402, 1000P±10%, 50V, X7R | C17, C83, C102, C144, C172, C173, C183, C184, C186, C187, C210, C211, C213, C235, C253, C259, C261, C268, C270, C271, C295, C300, C308, C319, C325, C329, C334, C337, C338, R296 |
| 118 | CHIP C / 0402, 0.01uF±10%, 50V, X7R | C56, C120, C267, C278, C280, C291, C298, C303, C304, C312, C323, C335, C336 |
| 119 | CHIP C / 0402, 0.1uF±10%, 16V, X7R | C249, C252, C258, C263, C273 |
| 120 | CHIP C / 0402, 1uF±10%, 6.3V, X5R | C13, C53, C118, C168, C190 |
| 121 | CHIP C / 0402, 0.012uF±10%, 25V, X7R | C2 |
| 122 | CHIP C / 0402, 15P±5%, 50V, COG | C154, C158, C217 |
| 123 | CHIP C / 0402, 150P±5%, 50V, COG | C69, C70 |
| 124 | CHIP C / 0402, 1800P±10%, 50V, X7R | C272, C281 |
| 125 | CHIP C / 0402, 1.5P±0.25P, 50V, COG | C282 |
| 126 | CHIP C / 0402, 22P±5%, 50V, COG | C248, C262 |
| 127 | CHIP C / 0402, 220P±5%, 50V, COG | C238, C239, C322 |
| 128 | CHIP C / 0402, 2200P±10%, 50V, X7R | C194, C197, C198 |
| 129 | CHIP C / 0402, 0.022uF±10%, 25V, X7R | C104, C201 |
| 130 | CHIP C / 0402, 27P±5%, 50V, COG | C6, C93, C130, C147, C232 |
| 131 | CHIP C / 0402, 2P±0.25P, 50V, COG | C140 |
| 132 | CHIP C / 0402, 33P±5%, 50V, COG | C257, C276 |
| 133 | CHIP C / 0402, 330P±10%, 50V, X7R | C205 |

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| 134 | CHIP C / 0402, 0.033uF±10%, 16V, X7R | C225, C229 |
| 135 | CHIP C / 0402, 36P±5%, 50V, COG | C301, C314, C377, C378 |
| 136 | CHIP C / 0402, 39P±5%, 50V, COG | C156, C288 |
| 137 | CHIP C / 0402, 3900P±10%, 50V, X7R | C107, C177, C275 |
| 138 | CHIP C / 0402, 0.039uF±10%, 10V, X7R | C129, C255 |
| 139 | CHIP C / 0402, 3P±0.25P, 50V, COG | C3, C9, C11, C12, C20, C38, C47, C52, C54, C71, C88, C116, C119, C123, C128, C136, C142, C143, C148, C151, C157, C160, C169, C174, C178, C185, C207, C215, C218, C222, C247, C274, C279, C283, C285, C292, C293, C296, C305, C309, C310, C315, C317, C326, C328, C332, C339, C340, C342, C343, C348, C369 |
| 140 | CHIP C / 0402, 47P±5%, 50V, COG | C245, C294, C306 |
| 141 | CHIP C / 0402, 470P±10%, 50V, X7R | C35, C124, C162, C208 |
| 142 | CHIP C / 0402, 0.047uF±10%, 16V, X7R | C200 |
| 143 | CHIP C / 0402, 4P±0.25P, 50V, COG | C106 |
| 144 | CHIP C / 0402, 5P±0.25P, 50V, COG | C132 |
| 145 | CHIP C / 0402, 68P±5%, 50V, COG | C244, C320 |
| 146 | CHIP C / 0402, 680P±10%, 16V, X7R | C357, C358 |
| 147 | CHIP C / 0402, 0.068uF±10%, 16V, X7R | C72, C73, C126, C161, C164, C175 |
| 148 | CHIP C / 0402, 0.068uF±10%, 10V, X7R | C234 |
| 149 | CHIP C / 0402, 6P±0.5P, 50V, COG | C324 |
| 150 | CHIP C / 0402, 82P±5%, 50V, COG | C165, C166, C192 |
| 151 | CHIP C / 0402, 820P±10%, 16V, X7R | C100 |
| 152 | CHIP C / 0402, 8P±0.5P, 50V, COG | C48, C60, C61, C65, C127 |
| 153 | CHIP C / 0402, 9P±0.5P, 50V, COG | C18 |
| 154 | CHIP C / 0402, 0.5P±0.1P, 50V, COG | C22, C25, C26, C64, C67, C77, C78, C79, C84, C85, C86, C101, R7 |
| 155 | CHIP C / 0603, 100P±5%, 50V, COG | C96 |
| 156 | CHIP C / 0603, 1000P±10%, 50V, X7R | C30 |
| 157 | CHIP C / 0603, 0.1uF±10%, 50V, X7R | C4, C5 |
| 158 | CHIP C / 0603, 15P±5%, 50V, COG | C32 |
| 159 | CHIP C / 0603, 1P±0.25P, 50V, COG | C10, C34 |
| 160 | CHIP C / 0603, 4P±0.25P, 50V, COG | C75 |
| 161 | CHIP C / 0603, 7P±0.5P, 50V, COG | C41, C111 |
| 162 | CHIP C / 0603, 8P±0.5P, 50V, COG | C290 |
| 163 | CHIP C / 0603, 0.5P±0.1P, 50V, COG | C327 |
| 164 | Chip Ta capacitor / TP, SIZE P, 1uF±20%, 10V | C233, C237, C313 |
| 165 | Chip Ta capacitor / TP, SIZE P, 10uF±20%, 6.3V | C1, C8, C42, C131, C159, C216, C226, C246, C286, C345, C346 |
| 166 | Chip Ta capacitor / TP, SIZE P, 2.2uF±20%, 10V | C181 |
| 167 | Chip Ta capacitor / TP, SIZE P, 4.7uF±20%, 10V | C109, C113 |
| 168 | CHIP C / 0805, 0.33uF+80%--20%, 10V, Y5V | C117 |
| 169 | Chip Ta capacitor / TS, SIZE A, 0.1uF±20%, 35V | C137, C149 |
| 170 | Chip Ta capacitor / TS, SIZE A, 1uF±20%, 16V | C380 |
| 171 | Chip Ta capacitor / TS, SIZE A, 15uF±20%, 6.3V | C44, C376 |
| 172 | Chip Ta capacitor / TS, SIZE A, 4.7uF±20%, 16V | C29 |
| 173 | CHIP C / 1206, 10P±5%, 1000V, COG | C265 |
| 174 | CHIP C / 1206, 1000P±10%, 50V, X7R | C45 |
| 175 | CHIP C / 1206, 10uF+80%--20%, 16V, Y5V | C62 |
| 176 | CHIP C / 1206, 15P±5%, 1000V, COG | C94 |
| 177 | CHIP C / 1206, 18P±5%, 1000V, COG | C43 |
| 178 | CHIP C / 1206, 22P±5%, 1000V, COG | C14 |
| 179 | CHIP C / 1206, 27P±5%, 1000V, COG | C46 |
| 180 | CHIP C / 1206, 2P±5%, 1000V, COG | C63 |
| 181 | CHIP C / 1206, 30P±5%, 1000V, COG | C152 |
| 182 | CHIP C / 1206, 3P±5%, 1000V, COG | C15 |
| 183 | CHIP C / 1206, 5P±5%, 1000V, COG | C331 |
| 184 | CHIP C / 1206, 8P±5%, 1000V, COG | C66, C341, C344, C379 |
| 185 | Plug-in electrolytic capacitor / Φ10*16, 470UF25V, ±20% | C39, C122 |
| 186 | Chip electrolytic capacitor / Φ6.3*5.3, 47U25V, ±20% | L20 |
| 187 | Chip trimming capacitor / TZV2Z100A110, 3`10p+100 | L13, L45 |
| 188 | Chip inductor / C1608CB-18NJ, 18NH±5%, 0603 | L36, L46 |
| 189 | Chip inductor / C1608CB-33NJ, 33NH±5%, 0603 | L53 |
| 190 | Chip inductor / C1608CB-47NJ, 47NH±5%, 0603 | L48 |
| 191 | Chip inductor / C1608CB-56NJ, 56nH±5%, 0603 | L2 |
| 192 | Chip inductor / MLF1608A1R0K, 1uH±5%, 0603 | L12, L21, L27, L44 |
| 193 | Chip inductor / LGHK1608R18J-T, 180nH±5%, 0603 | L5, L37 |
| 194 | Chip inductor / LGHK1608R22J-T, 220nH±5%, 0603 | L41 |
| 195 | Chip inductor / MLF1608A3R3K, 3.3uH±5%, 0603 | L42 |
| 196 | Chip inductor / MLF1608DR47K, 470nH±10%, 0603 | L14, L15, L47 |
| 197 | Chip inductor / MLF1608DR56K, 560nH±10%, 0603 | L34, L38 |
| 198 | Chip inductor / MLG1608B68NJ, 68nH±5%, 0603 | L7 |
| 199 | Chip inductor / MLF1608E6R8K, 6.8uH±10%, 0603 | L29, L57 |
| 200 | Chip inductor / MLG1608B82N, 82nH±5%, 0603 | L58 |
| 201 | Chip inductor / C2012C-39NJ, 39nH±5%, 0805 | L55 |

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| 202 | Chip inductor / C2012C-47NJ, 47nH±5%, 0805 | L40 |
| 203 | Chip inductor / C2012C-56NJ, 56nH±5%, 0805 | L49 |
| 204 | Chip inductor / FSLM2520-100J, 10uH±5%, 1008 | L50 |
| 205 | Chip inductor / FSLM2520-R47K, 470nH±10%, 1008 | L35 |
| 206 | Chip inductor / FSLM2520-R82K, 820nH±10%, 1008 | L3 |
| 207 | Chip inductor / LQW31HN23NJ03L, 23nH, 1206, MURATA | L19 |
| 208 | Chip inductor / LQW31HN33NJ03L, 33nH, 1206, MURATA | L9, L10, L11, L79 |
| 209 | Chip air-cored coil / 0.9*3.0*11TR | L18, L28 |
| 210 | Chip air-cored coil / 0.9*3.0*4.5TR | L64, L72, L73 |
| 211 | Chip air-cored coil / 0.9*3.0*6TR | L25, L26 |
| 212 | EMI, FILTER, SMT, BLM21P300S, 0805 | L1, L4, L23, L24, L32, L33, L39, L59, L60, L61, L65, L66, L67, L68, L69, L70, L74, L75, L76, L77, L78 |
| 213 | EMI, FILTER, SMT, BLM41P600SPT, 1206 | R90, R138 |
| 214 | EMI, FILTER, SMT, BLM11A601S, 0603 | X1 |
| 215 | Temperature Chip resistor / NTH5G16P42B104K07TH, 100K, 0603 | X2 |
| 216 | Chip crystal resonator / DSA535SA, 16.8MHz±2.5PPm | X3 |
| 217 | Chip crystal resonator / 3.58MHz, SMT-49, 30PPM | CN4 |
| 218 | Chip crystal resonator / CSTCR7M30G53-R0, 7.3M | J1 |
| 219 | FFC/FPC Connector / 08 6210 034 340 800, 34PIN, P=0.5mm | CN2 |
| 220 | 3.5mm Plug-in Speaker-Mic socket / PJ-D3027, DC30V0.5A | |
| 221 | 2PIN Plug-in Speaker socket / WCPW20-02 | |